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COLLEGE OF ARTS AND SCIENCES
LOYOLA UNIVERSITY BULLETIN
1963

Set II

ANNOUNCEMENTS 1963-1964

New Orleans, La.

January, 1963

VOL. XLV, NO. 1

ARTS AND SCIENCES

Founded in 1912

Member of the Southern Association of Colleges and Secondary Schools.

Member of the National Catholic Educational Association.

Member of the Jesuit Educational Association.

Member of the Association of American Colleges.

Member of American Association of Colleges for Teacher Education.

Accredited by the National Council for Accreditation of Teacher Education for the preparation of elementary teachers, secondary teachers, and principals leading to the Bachelor's or the Master's degree.

Approved for Teacher Education by the Louisiana State Board of Education.

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Vol. XLV

JANUARY, 1963

No. 1

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grant degrees by The General Assembly of Louisiana for the year
1912.

The Legal and Corporate Title of the University is
"LOYOLA UNIVERSITY, NEW ORLEANS"

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Ad Majorem Dei Gloriam

Loyola University



COLLEGE OF ARTS AND SCIENCES

1963 - 1964

6363 ST. CHARLES AVENUE
NEW ORLEANS 18, LA.
UNIVERSITY 6-5471

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Academic Calendar

1963

June	10-11	Registration for Summer Session in New Orleans.
	12	Opening of Summer Session in New Orleans.
	21	Opening of Summer Session in Mexico City.
September	11-14	Freshman Orientation and Registration.
	12-13	Registration of Sophomores, Juniors and Seniors.
	14	Registration for Saturday Classes.
	16	Official opening of Fall Semester. Mass of the Holy Spirit at 12:00 Noon.
	17	Lectures and Classes begin at 8:10 A.M.
	20	Terminal date for admissions.
	21	Registration for Graduate Divisions.
	23	Official opening of Graduate Divisions.
November	27	Latest date for changes or official dropping of courses. (A grade of WP or WF will be given in those courses dropped after this date.)
	1	Feast of All Saints. University Holiday.
	8	Mid-semester examinations begin. Memorial Mass for deceased faculty, alumni and students.
	20	Thanksgiving holidays begin after last class on Tuesday, November 19th.
	25	Classes resumed.
December	19	Christmas holidays begin after last class on Wednesday, December 18th.

1964

January	6	Classes resumed.
	20	Final examinations begin.
	30	End of Fall Semester.
	31- 1	Mid-session holidays. Registration of new students.
February	3	Official opening of Spring Semester. Fee for late registration.
	10-11	Mardi Gras. University Holidays.
	14	Latest date for changes or official dropping of courses. (A grade of WP or WF will be given in those courses dropped after this date.)
	20	Latest date for application of candidates for degrees to be conferred in May, 1964. Graduation fees due.
March	20	Mid-semester examinations begin.
	26	Easter holidays begin after last class on Wednesday, March 25th.
	31	Classes resumed.
April May	8-15	Pre-registration for 1964-1965.
	7	Ascension Thursday. University Holiday.
	11	Theses due in final form from candidates for graduation, May 1964.
	18	Senior examinations begin.
	25	Award Day Ceremonies at 11:00 A.M. in Field-house.
June	26	Final examinations begin for underclassmen.
	1	Baccalaureate Mass 5:00 P.M.
	2	Commencement Exercises 8:00 P.M.

1963 - CALENDAR - 1963

JANUARY							APRIL							JULY							OCTOBER							
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13	14	15	16	17	18	19	14	★	16	17	18	19	20	14	15	16	17	18	19	20	13	14	15	16	17	18	19	
20	21	22	23	24	★	★	21	22	23	24	25	26	27	21	22	23	24	25	26	27	20	21	22	23	24	25	26	
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1964 - CALENDAR - 1964

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MARCH							JUNE							SEPTEMBER							DECEMBER													
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29	★	31	---	---	---	---	28	29	30	---	---	---	---	27	28	29	30	---	---	---	27	28	29	30	31	---	---							

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B.A., University of California, 1959; M.A., San Jose State College, 1962.
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- AMBROSE J. HERTZOG, M.D., *Professor of Medical Technology; Director of Hospital Training*.
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A.B., Loyola University, New Orleans, 1930; A.M., St. Louis University, 1934; Ph.L., *ibid.*, 1938; S.T.L., *ibid.*, 1943.
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B.A., Loyola University, Chicago, 1959; M.A., The University of Chicago, 1961.
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B.S., University of Denver, 1947; M.S., *ibid.*, 1951; Ph.D., The Johns Hopkins University, 1955.
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B.A., University of Southwestern Louisiana, 1960; M.A., University of Arkansas, 1961.
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B.S., Loyola University, New Orleans, 1958.
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Ph.B., Loyola University, New Orleans, 1927; A.M., *ibid.*, 1929.
- EDMOND L. MERILH, M.S., *Professor Emeritus of Histology*.
B.S., Spring Hill College, 1917; Certificate of Bacteriology and Pathology, Loyola University, New Orleans, 1922; M.S., *ibid.*, 1923; Lifetime Teachers Certificate, State of Louisiana, 1938.
- REV. HENRY R. MONTECINO, S.J., A.M., *Associate Professor of Philosophy; Chairman of the Department*.
A.B., Spring Hill College, 1940; S.T.L., St. Louis University, 1948; A.M. *ibid.*, 1952.

^a On leave of absence.

WALTER G. MOORE, PH.D., *Professor of Biology.*

A.B., Wayne University, 1934; A.M., University of Minnesota, 1938; Ph.D., *ibid.*, 1940.

THOMAS J. MORAN, PH.D., *Supervisor of Student Teaching; Associate Professor of Education; Chairman of the Department.*

B.S., Massachusetts State College, 1942; M.S., *ibid.*, 1948; Ed.M., Harvard University, 1949; Ph.D., University of Ottawa, 1958.

SCRANTON A. MOUTON, M.F.A., *Instructor in Speech*

A.B., University of Southwestern Louisiana, Lafayette, 1950; M.F.A., The Catholic University of America, 1960.

REV. JOHN H. MULLAHY, S.J., PH.D., *Professor of Biology; Chairman of the Department of Biological Sciences.*

A.B., St. Louis University, 1937; M.S., Fordham University, 1941; S.T.L., St. Louis University, 1946; Ph.D., Vanderbilt University, 1951.

ELIZABETH NORSWORTHY, B.S., *Instructor in Medical Technology.*

B.S., Louisiana State University, 1933; Registry A.S.C.P., 1944.

REV. EUGENE J. O'CONNOR, S.J., PH.D., *Professor of English.*

A.B., Woodstock College, 1911; A.M., St. Louis University, 1912; A.M., Loyola University, New Orleans, 1920; Ph.D., Gregorian University, Rome, Italy, 1930.

REV. ANTHONY C. O'FLYNN, S.J., M.A., *Assistant Professor of Theology; Chaplain of the Evening Division.*

A.B., Spring Hill College, 1941; M.A., The Catholic University of America, 1943; S.T.L., St. Louis University, 1949.

JOHN J. PAUSON, PH.D., *Professor of Psychology; Chairman of the Department.*

A.B., Gonzaga University, 1945; M.A., *ibid.*, 1946; Ph.D., University of Fribourg, Switzerland, 1950.

ANNA R. PERSICH, B.S., *Instructor in Medical Technology.*

B.S., Ursuline College, 1939; M.T. Registry A.S.C.P., 1948.

ROBERT C. PETTERSON, PH.D., *Assistant Professor of Chemistry.*

B.S., University of Maine, 1947; Ph.D., University of Southern California, 1957.

*REV. J. EMILE PFISTER, S.J., M.A., *Instructor in Philosophy and Theology.*

A.B., Woodstock College, 1951; Ph.L., *ibid.*, 1952; M.A., *ibid.*, 1953; S.T.L., St. Louis University, 1960.

REV. ALVIN J. PILIE, S.J., A.B., *Associate Professor of Theology.*

A.B., St. Louis University, 1937; S.T.L., *ibid.*, 1947.

REV. LOUIS A. POCHE, S.J., M.A., *Instructor in Theology; Chaplain of the College of Music.*

A.B., Woodstock College, 1948; M.A., *ibid.*, 1950.

HALBERT A. REEVES, M.A., *Assistant Professor of English.*

B.A., Tulane University, 1950; M.A., *ibid.*, 1952.

CAPT. CLEMENS A. RILEY, *Assistant Professor of Military Science.*

CAPT. RONALD F. ROD, B.B.A., *Assistant Professor of Military Science.*

B.B.A., Loyola University, New Orleans, 1956.

CAPT. JAMES K. ROSS, M.Ed., *Assistant Professor of Military Science.*

B.A., Texas Western College, 1953; M.Ed., Loyola University, New Orleans, 1962.

EDMUND RUDOWSKI, A.M., *Instructor in Sociology.*

A.B., Miami University, Oxford, Ohio, 1948; A.M., Yale University, 1950.

MSGT. PETER SEARS, JR., *Assistant Instructor in Military Science.*

AIMEE SILVERIO, *Instructor in French.*

Bachillerato in Languages, French Dominican Academy, Havana, Cuba, 1944.

* On leave of absence.

- HILDA CHIARULLI SMITH, PH.D., *Assistant Professor of Education*.
B.S., Syracuse University, 1941; M.A., *ibid.*, 1947; Ph.D., *ibid.*, 1955.
- ISABEL SYNDER, A.M., *Associate Professor of Spanish*.
Ph.B., Loyola University, New Orleans, 1930; A.M., *ibid.*, 1934.
- REV. LOUIS G. SONIAT, S.J., A.M., *Professor of Theology*.
A.B., Gonzaga University, 1925; A.M., *ibid.*, 1926.
- GREGORY J. STAM, PH.D., *Assistant Professor of German and Russian*.
B.A., Academy of Commercial Sciences, Vienna, 1927; M.A., *ibid.*, 1929; Ph.D., University of Vienna, 1931.
- A. L. STEPLOCK, M.D., *Professor of Medical Technology; Director of Hospital Training*.
B.S., University of Arkansas, 1947; M.D., Tulane University, 1949; Diplomat of American Bd. of Pathology, 1954.
- CHARLES E. STETLER, M.A., *Instructor in English*.
A.B., Duquesne University, 1950; M.A., *ibid.*, 1961.
- KENNETH J. STIBLER, M.A., *Instructor in Education*.
B.S., Seton Hall University, 1953; M.A., Montclair State College, 1959.
- ALTON C. STRAUGHAN, JR., B.A., *Instructor in German*.
B.A., Louisiana State University, 1960.
- LAWRENCE J. STROHMEYER, M.S., *Associate Professor of Physics*.
B.S., Loyola University, New Orleans, 1938; M.S., New York University, 1940.
- LEWIS J. TODD, A.M., *Associate Professor of Mathematics*.
B.S., Loyola University, New Orleans, 1933; A.M., Tulane University, 1942.
- REV. BERNARD A. TONNAR, S.J., M.A., *Associate Professor of Mathematics; Director of International Studies*.
A.B., St. Louis University, 1937; A.M., The Catholic University of America, 1940; S.T.L., St. Louis University, 1946.
- SFC. R. A. TUNNELL, *Assistant Instructor in Military Science*.
- EDWARD P. UZEE, M.D., *Instructor in Medical Technology*.
B.S., Loyola University, New Orleans, 1954; M.D., Louisiana State University, 1957.
- MARGARET A. VANDERHAAR, M.A., *Instructor in English*.
B.A., Ursuline College, Louisville, 1955; M.A., University of Chicago, 1961.
- MARIE E. VILLERE, B.S. in M.T., *Instructor in Medical Technology*.
B.S. in M.T., Loyola University, New Orleans, 1943; M. T. Registry A.S.C.P., 1944..
- REV. JOSEPH M. P. WALSH, S.J., PH.D., *Associate Professor of Philosophy*.
B.S., Spring Hill College, 1932; A.M., Gonzaga University, 1939; S.T.L., St. Louis University, 1946; Ph.D., Forham University, 1956.
- RAY H. WITHAM, B.A., *Instructor in Mathematics*.
B.A., Illinois College, 1945.
- RAYMOND P. WITTE, PH.D., *Professor of History; Director of the Evening Division*.
A.B., St. Mary's University, 1939; Ph.D., St. Louis University, 1947.
- REV. H. JAMES YAMAUCHI, S.J., S.T.D., *Associate Professor of Theology; Chairman of the Department*.
B.S., Spring Hill College, 1944; S.T.L., Facultes S. Albert, Louvain, 1951, S.T.D., Gregorian University, Rome, Italy, 1955.
- LEO C. ZINSER, LL.B., *Assistant Professor of Speech; Chairman of the Department; Director of Dramatics*.
Ph.B., Loyola University, New Orleans, 1933; LL.B., *ibid.*, 1935.

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The University

The Jesuits arrived in New Orleans in 1847 for the purpose of establishing a college of liberal arts and sciences. A college preparatory academy and the College of the Immaculate Conception were established on February 1, 1849 at the corner of Baronne and Common Streets. In 1904 an Academy and College were opened on St. Charles Avenue opposite Audubon Park, and the two associated institutions were known as Loyola College. In 1911 the College of the Immaculate Conception was united with Loyola College on the present Loyola Campus. At the same time, the Loyola Academy and the Academy of the Immaculate Conception were united at the Baronne Street location, to become the present Jesuit High School.

At the request of His Excellency, Most Reverend James J. Blenk, Archbishop of New Orleans, Loyola College was expanded to become Loyola University in the fall of 1911. Loyola University was duly incorporated by the General Assembly of Louisiana and empowered to grant all university degrees in 1912.

JESUIT HIGHER EDUCATION

Loyola University is conducted by members of the Society of Jesus and is a member of the Jesuit Educational Association. In common with all other Catholic educational institutions, it has as its final aim the formation of the true and perfect Christian described by Pope Pius XI in his *Encyclical on the Christian Education of Youth*:

The true Christian, product of Christian education, is the supernatural man who thinks, judges, and acts constantly and consistently in accordance with right reason, illumined by the supernatural light of the example and teachings of Christ; in other words, to use the current term, the true and finished man of character.

The liberal arts college of Loyola University is conducted to promote the spiritual, intellectual, moral, and aesthetic advancement of its students.

A liberal education at Loyola University endeavors to produce the mature development of the student through a care-

fully integrated liberal arts curriculum. This curriculum includes a liberalized introduction to a special area of learning selected by the student. In this way, adequate provision is made for a student's advancement into scholarly or professional studies.

The curriculum is designed to develop habits of clear, logical, and accurate thinking through such courses as logic, mathematics, and the natural sciences; the ability for clear and forceful self-expression through such courses as composition, language, and public speaking; a knowledge of human nature through courses in literature; a knowledge of the past through courses in history; a knowledge of the present, a contemporary social awareness, and an attitude of social and civic responsibility through courses in social sciences and modern history; a clear knowledge and appreciation of ultimate religious, philosophical, and moral values through courses in theology and philosophy which, at Loyola University, are especially emphasized.

SPECIFIC AIMS OF THE UNIVERSITY

The specific aims of Loyola University are the following:

1. The conservation of knowledge and ideals and values.
2. The interpretation and transmission of knowledge and ideals and values.
3. The extension of the frontiers of knowledge through investigation and research.
4. The preparation for professions by an intelligent and thorough training in the principles underlying them rather than a mere *ad hoc* training in technique.
5. Loyola University seeks to stimulate and promote intellectual achievement not merely in the field of humanities, philosophy and theology—the Jesuit university's traditional sphere—but in every department of knowledge.
6. Loyola University will show proper consideration for the physical and mental health of its students. For this reason it will include a sane program of physical education in its curricular and co-curricular offerings.
7. As a Catholic university, Loyola University has a Catholic standard of values. Consequently, it places human and spiritual values above the purely material; at the summit of the hierarchy of values are the supernatural truths known through Divine Revelation.

8. Loyola University exists in order that Catholic thinkers and men of science, supported by a truly Catholic environment, informed in their attitude by the spirit of Christ and His Church, may be enabled by a truly unbiased, liberated, and enlightened intelligence to penetrate adequately to reality and to achieve by organized cooperative effort that *universitas* which is so urgently needed in the contemporary world. Loyola University demands the conscious production of an atmosphere vitalized by Christ; it must in its structure and in the common life of its teachers and students be thoroughly Catholic.

9. Loyola University's unity of thought emanates from its totality of outlook. God and the supernatural are at the basis of Jesuit education. The principle of integration in Loyola University is Catholic faith and practice.

BEQUESTS AND GIFTS

Because of its rapid growth the University must look to its friends and benefactors, and to all those whose bounty is being devoted to the cause of higher education, for the generous contributions which will enable the University to continue its building program. The University hopes for a continuance of financial as well as moral support from those who believe in placing college education within the reach of every deserving student, and who consider that education the safest and best which postulates as the foundation of its intellectual development the formation of character through moral and religious education.

The University cherishes the memory of all its benefactors, great and small. These share in the good works and prayers of the Jesuits of Loyola. Their generous assistance to the University, according to their means, will be remembered long after they are gone.

Among the distinguished benefactors of the University should be mentioned: Miss Sarah Babb, Mr. Eugene Barousse, Mr. J. Albert Baudean, Rev. John F. Basty, Mr. and Mrs. E. J. Bobet, Mrs. Paul Bordenave, Hon. Joseph A. Breau, Mr. Otto F. Briede, Jr., Mr. Joseph P. Buckley, Mr. and Mrs. Wm. P. Burke, Mr. Russell Clark, Dr. Joseph Danna, Miss Leonora Del Bondio, Mrs. John Dibert, Mr. David Easson, Mr. Lawrence Fabacher, Mrs. Jennie Tierney Fahey, Mr. Edward Fassmann, Miss Mary Ferguson, Mr. Bernard Ghio, K. of St. G., Miss Cecelia Jahn, Mr. G. R. Katz, Mr. John S. Lanata, Miss Anna

Lurges, Miss Mary Agnes McCabe, Miss Katherine McDermott, Mr. James B. Martin, Mr. J. Edgar Monroe, Mr. Edgar Murray, Mrs. J. B. Palmer, Mrs. Emma P. Quintero, Mrs. Louise Jouet Rabouin, Mrs. Isabelle Melancon Seudder, Mrs. Olive Stalling, Mrs. George Swarbrick, Mrs. S. O. Thomas, Mr. and Mrs. W. J. Vincent, Mr. Alphonse J. Wegmann, Miss Lilly Whitaker.

Those who are desirous of helping Loyola University in its sublime mission of higher education by erecting buildings as family memorials, or by endowing departments or lecture-chairs in any of its schools or colleges, are requested to make their donations, legacies and bequests in the proper legal form, as shown in this Bulletin. One may specify the purpose for which the gift is to be used. This intention will be observed scrupulously. It is well to state whether the sum is for building and equipment or for endowment, as the latter must be invested and only the accruing interest may be used.

FORM OF GENERAL BEQUEST

I hereby give and bequeath to Loyola University, New Orleans, Louisiana, for the use of said institution in fulfillment of its general corporate purpose.....

(State here the sum of money desired to be given, or, if it be the residue of an estate, state this fact.)

FORM OF BEQUESTS FOR A PARTICULAR PURPOSE

I hereby give and bequeath to Loyola University, New Orleans, Louisiana, for the following purpose.....

(State clearly the special object of the bequest, as well as the sum of money or property, real or personal, constituting the same.)

SCHOLARSHIPS

Through the generosity of friends, the University is able to offer a limited number of scholarships each year to bright and ambitious young men and women of fine moral character. The University is very happy to be able to assist these young men and women in getting a higher education which will prepare them for outstanding citizenship. The President and faculty are deeply grateful to their friends who with noble Christian spirit have extended a helping hand to the less fortunate. It is earnestly hoped that others will help to increase our scholarship fund for the benefit of deserving young men and women.

A Perpetual Scholarship is founded when an endowment of \$15,000.00 is set aside for this purpose.

A Course Scholarship represents an amount which will cover the tuition and general fees of one student during his four years of college. The sum of \$2,800.00 may be deposited or \$700.00 may be paid annually.

Most of the scholarships listed below are valued at \$200. The holder of the scholarship must pay the remainder of the University charges at the beginning of the year, and he must at all times set an example of good conduct and serious application. The honor will be forfeited by any holder of a scholarship whose grades during the semester are unsatisfactory. Scholarships granted in a specific college cannot be transferred to any other school or college of the University.

Scholarships are awarded each year by the Committee on Scholarships which meets during the month of April. Application blanks may be obtained from the Chairman of the Scholarship Committee and must be returned to him before the first of March.

The following are scholarships which have been placed at the disposal of the University.

The Hon. Joseph A. Breaux Scholarships.

The following for the College of Arts and Sciences and the College of Business Administration:

The W. P. Burke Scholarships.

The Rev. Francis X. Twellmeyer, S.J., Scholarship.

The Rev. A. E. Otis, S.J., Scholarship.

The Rev. Albert J. Biever, S.J., Scholarship.

The Louisiana State Council of K. C. Scholarships.

The St. Ignatius Scholarship, founded by Miss E. S. Fitch.

The St. Ignatius of Loyola Scholarship.

The Men's Sodality of Jesuits' Church Scholarship.

The Francis Xavier Wegmann Scholarship.

The Virginia Bobet Scholarship.

The Louise Thomas Scholarship.

The Albert J. B. Lapeyre Memorial Scholarship.

The Ladies' Marquette Auxiliary Scholarships.

The Mrs. Josephine Burke Palmer Scholarships.

The Joseph A. Lipari Scholarships.

The Louise Jouet Rabouin Scholarships.

The G. R. Katz Scholarship, Medical Technology.

The Otto F. Briede, Jr. Scholarship, Physics.

The Scudder Scholarship, Sociology.

The Eugene Barousse Scholarship.

The Archdiocesan Scholarships.

The J. Albert Baudean Scholarship.

The Andrew Fitzpatrick Scholarship.

The Dr. Herbert M. Shilston Graduate Scholarship Award.

Organization and Administration

The College of Arts and Sciences at present conducts the following departments:

Biological Sciences	Mathematics
Chemistry	Medical Technology
Communications (Television)	Philosophy
Education and Physical Education	Physics
English	Psychology
History and Political Science	Sociology
Journalism	Speech
Languages (Classical and Modern)	Theology
Library Science	

In these departments the College offers courses leading to the degrees of Bachelor of Arts, Bachelor of Social Science and Bachelor of Natural Science. It also conducts pre-professional courses that qualify students for entrance into the professional schools of Dentistry, Law, Medicine and Pharmacy.

NURSING EDUCATION

Although Loyola University does not grant a degree in Nursing Education, it offers on-campus courses in partial fulfillment of requirements for the degree in Nursing Education.

CLASSICAL STUDIES

It is one of the regrettable results of the present unrest in the educational world, where the forces arrayed to give vocational training, mechanical development, wage-earning skill, and physical culture are clashing with the traditional classical methods, that the cultural and academic subjects have lost much of their former prestige. No other curriculum has been found to provide the comprehensive training of mind, heart, and will as surely and as efficiently as did the classical studies when they flourished in a golden age as the cause and the fruit of erudition, scholarship, and refinement.

MODERN SCIENCES

It is a grievous error to believe that the lovers of literature and art must be enemies of science and invention. The history of science shows plainly how the great scientific discoveries came out of the institutions hallowed for their classical learning. Until recent times all scientific information and the disputes and inventions of scientists found their way to the public through the Latin tongue.

Ample facilities are offered in the College of Arts and Sciences for the lover of natural science. Large, fully equipped laboratories for general and specialized chemistry, biology, medical technology, and physics are provided. Consecutive courses covering four years of intensive study lead to the degree of Bachelor of Sciences.

THE STUDENT HEALTH SERVICE

Loyola University maintains a medical service on the campus. This service insures a safe health program for both students and faculty.

It is operated under the following rules:

1. Students entering Loyola for the first time or re-entering the University must undergo a physical examination before their registration is officially completed.
2. The University may also require physical examinations at other designated times during the student's stay.
3. A student may be refused admission to the University on the recommendation of the medical examiners. This board also may request a student already enrolled to withdraw.
4. A student may see the University Physician on appointment.
5. Patients confined on the campus will be visited by the University Physician.
6. Medicines or hospitalization are not provided by the University's health service.

TESTING AND GUIDANCE CENTER

The University provides psychological evaluation and counseling services to students for a minimal fee. Members of the faculty of the Department of Psychology staff the Center, whose purpose is to aid the student in solving his scholastic, vocational, or personal problems.

THE STUDENT LOAN SERVICE

Loyola shares in the National Defense Student Loan Program whereby the student can borrow as much as \$1,000 a year towards his education without paying any interest until one year after graduation. Those entering the teaching field have half of the loan cancelled upon five years of service in the public schools.

RESERVE OFFICERS TRAINING CORPS

The Department of the Army maintains a General Military Science ROTC unit at Loyola. Students admitted to the Advanced Course may, prior to graduation, request a Reserve commission in a branch in which their professional major will qualify them. Instruction is given in subjects common to all branches of the Army.

All physically fit male students of the College of Arts and Sciences, except veterans, are required by the institution to participate in two years of Military Training, normally during their first two years. Physical fitness is determined by examination without additional expense to the student. Those who fail to take the physical examination at the proper time or who have late registration will be charged a nominal fee (approximately \$2.00).

SPIRITUAL LIFE

The University appoints a Priest, together with needed assistants, to the post of University Chaplain for all the students. He is at their disposal at all times to guide, counsel and advise. The students will find him ready to assist them in their spiritual, personal and individual problems. He is, also, in general responsible for all the organized spiritual activities on the campus.

Convinced of the great value of the Spiritual Exercises of St. Ignatius, the faculty of Loyola makes provisions for its students to follow these Exercises in what is called a Retreat. These retreats are of three kinds, namely, campus week-end retreats, closed retreats at Manresa (Convent, La.) for the men, or closed retreat at the Cenacle, Metairie, La., for the ladies.

For the purpose of fostering religious faith and fervor, and to encourage the students of spiritual and scholastic leader-

ship, the University Sodality offers many opportunities for personal development as well as training and practice in social work and religious activity. Weekly meetings are held for the discussion of phases of Catholic life.

STUDENT COUNCIL

The Student Council consists of twenty-seven members, representing the College of Arts and Sciences, the Schools of Law and Dentistry, and the Colleges of Pharmacy, Music, and Business Administration. These students are selected by the student body with the approval of the faculty. The duty of the Council is to unify student thought and action. It conducts general meetings and elections, sponsors and manages interclass contests, contributes to the student publications, and leads and directs student activities.

HONORARY FRATERNITIES AND ORGANIZATIONS

In order to give recognition and encouragement to high standards of scholarship among the students, several honorary scholastic fraternities and organizations have been established on the campus.

ALPHA SIGMA NU

Membership in Alpha Sigma Nu, national honorary Jesuit scholastic society, is the greatest honor which can be bestowed upon undergraduate students of the University who have distinguished themselves by outstanding scholastic achievement. The sole honor group set aside for that purpose on the campus, the Loyola Chapter of Alpha Sigma Nu was established here April 26, 1936. The two highest ranking students in each school or college of the University are nominated for membership each year, and the final selection of members is made from their number.

BETA EPSILON UPSILON

Beta Epsilon Upsilon, honorary medical technology society, was founded on the campus on May 23, 1939. It provides a stimulus for scholastic attainment in this field of the medical profession. Its high ideals and discriminating selection of members have made it the goal of undergraduate Med Tech. Its varied activities include the presentation of professional programs at opening meetings. Membership is by invitation of the active chapter to those who meet scholastic requirements.

BLUE KEY

This is a national honorary service fraternity whose members are chosen by the active student chapter from male students who have distinguished themselves in leadership, activity, scholarship and service rendered the University.

CARDINAL KEY

Cardinal Key National Honor Sorority was established in 1953. Election to membership in the Sorority is the recognition of achievement by a Loyola co-ed in scholarship and extra-curricular activity. The organization seeks to advance religion, patriotism, and service by affording training for leadership in the college community. It aims at the further development of the character of the membership by the application of the cardinal virtues of prudence, temperance, justice and fortitude to daily life.

DELTA EPSILON SIGMA

D. E. S. is a national scholastic honor society for students and graduates of Catholic colleges and universities. Members are chosen from the College of Arts and Sciences only, on a basis of good character, liberal culture, and high scholarship. Candidates must have at least a "B" rating throughout their four years.

KAPPA DELTA PI

Kappa Delta Pi is an honor society in education to encourage high professional, intellectual, and personal standards and to recognize outstanding contributions in education. Zeta Rho Chapter was established at Loyola on October 8, 1949.

SIGMA PI SIGMA

The Loyola Chapter of Sigma Pi Sigma, national honor physics society, was installed December 19, 1954. The fourfold purpose of this group is to reward high scholarship by election to membership, to advance knowledge of and interest in physics, to promote a spirit of cooperation and fellowship between students and faculty, and to serve as a student sponsor of the extra-curricular activities of the physics department.

THIRTY CLUB

The Thirty Club is an honorary journalism society whose purpose is to promote the advancement of journalism on the high school and college levels. Annually the group sponsors

the High School Journalism Workshop, a series of weekly lectures running from October to April and supplies advisors for a Junior Achievement company and for the New Orleans Junior Achievement yearbook. They will also sponsor the Loyola Film Series during the year.

TRI BETA

The Eta Lambda chapter of Tri Beta, national honor biology Society, was established at Loyola on March 24, 1956. It unites biology, pre-medical, pre-pharmacy, pre-dental and medical technology students into a single group who possess a common interest in biology. Its purpose is to instill in its members a desire for scientific knowledge, research and truth.

PROFESSIONAL AND ACADEMIC SOCIETIES

ACADEMY OF FINE ARTS

The Academy of Fine Arts was founded in 1941, to encourage and stimulate interest in the cultural fields of art, architecture, literature, music and related subjects. The Academy sponsors lectures by prominent persons in the cultural fields, thereby fostering intellectual attainment in an extra-curricular manner. Membership is open to all University students by attending the Academy meetings.

AGRAMONTE PRE-MEDICAL SOCIETY

This group, named in honor of Dr. Aristides Agramonte, noted malaria fighter and co-worker of Dr. Walter Reed, was founded in 1941 to provide an organized, co-curricular preparation for the study of medicine. The program includes lectures, motion pictures, and field trips to medical institutions. Each year, "Pre-Med Night" is held by the society in an effort to interest graduating high school seniors in the study of medicine. Membership is open to male pre-med students who fulfill prescribed scholastic requirements.

AMATEUR RADIO CLUB

The Amateur Radio Club was organized in September, 1945. Its primary purpose is to aid its members in preparing for the code and theory examinations required by the Federal Communications Commission for Amateur Radio Operators. Members operate W5LJY. A genuine interest in Amateur Radio is the only prerequisite for membership.

AMERICAN CHEMICAL SOCIETY

The Loyola University Chapter of the Student Affiliates of the American Chemical Society was chartered on August 21, 1942, as an outgrowth of the Chemistry Club, founded in 1933. The organization fills the need for the organized union of chemistry students and benefits them professionally and personally. Lectures, discussions, and visits to industrial and research plants constitute the yearly program. Membership is open to all students who have completed a course in general chemistry.

CAMPUS CAPERS

Originally founded in 1949 as a campus entertainment group, the Campus Capers organization has grown in size and reputation. Talented instrumentalists and vocalists comprise the troupe, which entertains at Blue Key Talent Night, High School Day and informal campus dances. In addition, through close cooperation with the Department of Public Relations, Campus Capers has actively participated in student recruitment drives at high schools throughout the local areas.

CONSERVATIVE CLUB

The Conservative Club of Loyola was founded in 1961-1962. Its aim as is stated in the preamble of its constitution is to preserve, by means of education, the constitution of the United States, free enterprise, and the Catholic principle of subsidiarity. Promotion of conservative points is effected by the distribution of literature, guest speakers, and public debates. Membership is open to all interested students.

DEUTSCHER VEREIN

With the increased enrollment in the study of German, Deutscher Verein, the German Club, was re-organized in 1955 under a new constitution. Originally founded in September, 1944, the group seeks to correlate the language course of the classroom with the current trends of German political and cultural thought. Membership is open to any student or faculty member of the University who displays a genuine interest in club activities.

EDWARD A. GAMARD PRE-DENTAL SOCIETY

The Gamard Pre-Dental Society had its beginning in 1946 as the means of establishing a closer contact among the men

who, in later life, will be professional associates. It also affords the members, through the annual Dental Circus, an opportunity to become acquainted with the staff and the operation of the School of Dentistry. Membership is open to all pre-dental students.

EDWARD DOUGLASS WHITE DEBATING SOCIETY

Named for that eminent statesman and jurist of Louisiana who became the Chief Justice of the United States Supreme Court, the Edward Douglass White Debating Society was established at the University in September of 1925. It has since that time maintained a reputation for fostering at Loyola an interest in the necessary art of self-expression and eloquence. Annually from its members is chosen the varsity debating team which represents the University against teams from throughout the nation. The society members are selected by delivery of a trial address and election by the active membership.

ELEMENTARY EDUCATION CLUB

Affiliated with the National Education Association, the Elementary Education Club is a local professional group founded in 1948. The Club serves to cement the bond among the undergraduate education majors that will continue through later professional relationships. All interested el-eds may become members.

INTERNATIONAL RELATIONS CLUB

The Loyola Chapter of the International Relations Club was started in September of 1952 to foster a keener interest in and a fuller knowledge of current problems in international relations. The club, to which any Loyola student may belong, promotes the desire for harmonious relations among nations, and in particular sponsors such activities as lectures by prominent figures, including Consuls, Congressmen, and outstanding Statesmen. The main object of this organization is the Junior United Nations, consisting of approximately 15 high schools that meet monthly and debate international problems.

LE CERCLE FRANCAIS

Le Cercle Francais, the French Club, consists of those students who wish to be united in an attempt to study further the culture and tradition behind the French language. Founded in 1940, the Club has undertaken the sponsorship of the Carol Sing, held annually prior to the Christmas recess. All faculty members, students, and alumni are eligible for membership.

MEDICAL TECHNOLOGY CLUB

Established on May 14, 1937, the Medical Technology Club served at that time as an extracurricular activity among the first group of women in the College of Arts and Sciences. Today, it still has the purpose of creating a spirit of comradeship and professional union. Lectures, movies, and social events compose the yearly program. All students in the Department of Medical Technology are members.

MICHELSON PHYSICS SOCIETY

Named for Albert A. Michelson, noted American physicist, this society was founded in 1942. As one of the most active campus scientific groups, Michelson Physics Society has maintained a series of student seminars and lectures by experts in various fields of physics. All physics majors and students who have completed one semester of physics are eligible for membership.

PAN AMERICAN CLUB

For the purpose of intimate study of inter-American relations, and to stimulate friendly cooperation among the Spanish and English speaking students of Loyola, the Pan American Club was organized on October 12, 1947. It sponsors various functions annually, all emphasizing the cultural background of our Spanish-speaking neighbors. Chief among the club activities are the Pan American Day at Loyola and the sponsoring of the Loyola Language and Cultural Center in Mexico City during the summer. Membership is attained through application to the governing board of the club.

PEP CLUB

The Pep Club was reorganized in September, 1950, in order to stimulate student activity and participation in all athletic functions on and off the campus. This group, by its organized support and loyalty to varsity teams, supplies the vital student backing necessary in successful college athletics. Membership is open to all co-eds of the University.

PHILOSOPHY CLUB

Reactivated in October, 1953, the Philosophy Club offers a lecture series devoted to the provision of students with an opportunity to study and discuss philosophical works as an extra-curricular activity. The organization has inaugurated the St. Thomas Aquinas Lecture in Philosophy to be delivered

each year on that Saint's feast day. Membership is open to any undergraduate student of the University.

PRE-LAW CLUB

The Pre-Law Club was established on December 15, 1953. It was founded in order that pre-legal students might receive an early orientation to work in the School of Law and to the subsequent practice of law. The main object of this organization is to promote association with students in the same program. Membership is open to all students who intend to study law.

REPUBLICAN CLUB

The purpose of the organization is to collect, analyze, and discuss political affairs, to promote better political ideals, and to support worthy Republican candidates for public office. The club offers an opportunity for students to find political expression and recognition. Membership is open to all interested students.

SECONDARY EDUCATION CLUB

This club is primarily concerned with fostering interest in secondary education. Lectures are given by outstanding persons in the teaching field in order to give the members a greater understanding of their profession. Any student following the secondary education course is eligible for membership.

SOCIAL SCIENCE CLUB

The Social Science Club was organized on Loyola's campus in April of 1958. The Club was founded to further interest in the social sciences in the school. Throughout the year the club sponsors the appearance of different authorities in the various fields related to the social sciences and the humanities. Membership is open to anyone interested in the social sciences.

ROBERT SOUTHWELL SOCIETY

Formerly called the Pegasus Poetry Society, this society seeks to fill the lack of cultural influence and outlook in modern life. While arousing an interest in the appreciation of literature, the group also encourages original composition among the members and the students of Loyola. Membership is open to any interested student of the University.

STUDENT DEMOCRATIC ASSOCIATION

The Loyola Student Democratic Association exists to foster

awareness and understanding of the problems and opportunities in our democracy. The duty of the student—particularly in our form of government—is to contribute his objective views and his sense of liberty to the affairs of his state and nation. The Loyola Student Democratic Association serves as an assembly for this purpose.

Activities include weekly meetings, discussions of issues of importance to the political, social and economic affairs of the United States, a film series, and guest lecturers.

Membership is open to all interested students.

THESPIANS

The Thespians, the University drama group, had its **founding** at the College of the Immaculate Conception prior to the establishment of Loyola University. This organization fulfills the need for a theater department by fostering and developing the dramatic talent of the student body. Members are trained in the various theatrical arts through group presentation of campus stage productions. All students of the University are eligible for membership.

UNIVERSITY BAND

The band provides students with the opportunity to develop musical ability and taste, and to acquire practical experience through performance at concerts. Band activities include two formal concerts, a concert tour, presentation of a guest conductor and soloist, television shows, and performance at University functions and athletic events. Membership is open to all students who have the required ability and training.

SERVICE ORGANIZATIONS

ALPHA PI OMICRON

Organized in September, 1938, Alpha Pi Omicron, service fraternity, provides an organized means by which the male students of Loyola may render service to the University, its faculty, and student body. Among the more prominent activities of the fraternity are the publishing of the Loyola Student Directory which is distributed free of charge to the entire University, ushering at Forums and Commencement Exercises, and serving the quarterly Alumni Breakfasts. Membership in Alpha Pi Omicron is open to all Loyola men who express a genuine desire to serve the University and who are accepted by the active members.

LAMBDA SIGMA LAMBDA

Lambda Sigma Lambda, service sorority, was organized to serve the University, its faculty and student body in all ways possible and in so doing to instill in its members the virtues of generosity, dependability, initiative, leadership, loyalty and cooperation. Founded on October 16, 1941, the sorority has put these principles to practical application by placing itself at the disposal of administrative offices and student organizations to aid them in any way whatsoever. Membership is open to all Loyola co-eds who meet organizational standards.

STUDENT PUBLICATIONS

MAROON

The University newspaper, the *Maroon*, is published about 25 times during the year by a student staff under the direction of the faculty of the Department of Journalism. It publishes the news of the University as seen by the editorial staff. Positions on the editorial and business staffs are open to all students of the University.

STUDENT DIRECTORY

Annually, Alpha Pi Omicron, service fraternity, presents to the faculty and students of Loyola the *University Directory*. Contained therein is the name, address and telephone number of every member of the faculty, student body, and staff of the University. This book is presented free of cost to the University and edited entirely by members of APO.

STUDENT HANDBOOK

The Student Handbook or "*L*" *Book* was first published as an aid and guide for Freshmen. While maintaining this purpose, it is now presented annually by the Student Council as a reminder to upperclassmen of the ideals, traditions, and regulations of Loyola.

WOLF

The Wolf is the annual publication or yearbook of Loyola University. The executive heads of the publication are chosen from among undergraduate staff members. It is their duty to gather and edit a pictorial record of each year's activities and to present it to the student body as a memento of their college careers. Staff positions are open to all interested students.

ENTRANCE PROCEDURE

APPLICATION FOR ADMISSION

The following procedure is to be followed in applying for admission:

1. Request an application for admission from the Director of Admissions either by letter or by telephone.
2. Supply all the information required on Part I of the application for admission.
3. Attach to the application blank an application fee of \$10.00 payable to Loyola University. This fee is neither deductible from the tuition nor refundable.
4. Attach to the application blank a recent photo approximately 2" x 2".
5. Request your high school principal to return Part II of the application blank to the Director of Admissions after he has supplied your complete high school record thereon.
6. Applicants interested in housing facilities should communicate with the Dean of Students.
7. Applicants interested in scholarships should communicate with the Chairman of the Committee on Scholarships.

SCHOLASTIC APTITUDE TESTS

8. All applicants are required to take the College Entrance Examination Board Tests (Scholastic Aptitude Tests only) and to have a copy of the results sent to the Director of Admissions. Your Student Counselor or Principal will be able to tell you how to apply to take these tests. If, however, you wish to contact the C.E.E. Board directly, their address is: Box 592, Princeton, New Jersey. These tests will be administered on the morning of each of the following dates:

<i>Testing Dates</i>	<i>Deadline for Applications</i>
January 12, 1963	December 15, 1962
March 2, 1963	February 2, 1963
May 18, 1963	April 20, 1963
August 14, 1963*	July 19, 1963

*Applicants are recommended not to use this date except after consultation with the Loyola Committee on Admissions.

ACHIEVEMENT TESTS

9. Those applicants who consider that their high school background and achievement may qualify them for admission to courses beyond the ordinary Freshman level are advised to take *Achievement Tests* in those subjects in which they seek advancement beyond the Freshman level. Any three of the following Achievement Tests may be taken:

American History and Social Studies

Chemistry

English Composition

French

German

Latin

Advanced Mathematics

Spanish

The scores established in the Achievement Tests will be referred to the chairmen of the respective departments at Loyola, and the chairmen will make decisions concerning the extent of the advancement of the applicants in the subjects concerned.

The Achievement Tests are one-hour tests administered in the afternoon of each test date set for the *Scholastic Aptitude Test*. The bulletin, *A Description of the College Board Achievement Tests*, may be secured when application is made to the College Entrance Examination Board to take the *Scholastic Aptitude Tests*, that are required for admission.

10. All students who will reside in the Campus Residence Halls must deposit \$150 upon receiving their letter of acceptance for admission to Loyola University. Students not residing on the campus pay a reservation fee of \$100. These deposits are deductible from the tuition and room and board but are not refundable to applicants for admission.

Applicants for admission to the Freshman class must meet the requirements stated below under Methods of Admission. The specific units of credit that are required and other units that may be presented for admission to the Freshman class are listed under Admission Requirements.

Application for admission accompanied by proper credentials must be filed with the Director of Admissions no later than one month prior to the Registration dates for the Fall and Spring Semesters. Applications received after these dates will not be considered.

Applicants for admission as freshmen, or with advanced standing, must submit official records from all schools and colleges attended. These credentials are to be sent directly by the proper officer of the school or college in which they were earned and not through the student. Credentials which are submitted for admission become the property of the University, even in the case of applicants to whom admission is denied, and are kept permanently on file. Blank forms for transcripts of records may be had on application to the Director of Admissions.

It is recommended that applicants who desire admission immediately on graduation from high school have their credentials sent to the Director of Admissions at the beginning of the last term of their senior year. These credentials should include the past scholastic record, together with a list of courses in progress during the final term of the senior year and the applicant's rank in class. This will enable the Committee on Admissions to grant tentative admission pending receipt of complete and final records which should be sent to the Director of Admissions by the high school principal immediately after graduation from high school.

The University reserves the right to refuse admission to applicants whose previous work is of such a grade as to create a doubt regarding their ability to pursue successfully their scholastic work in the University.

All students are expected to be matriculated before the beginning of the session's classes, thus allowing them ample time to be assigned to classes and to be provided with laboratory equipment.

Students should be present on the opening day of classes. They will not be admitted after the first five class days. Freshmen must be present on the opening day of Freshman Orientation Week.

METHODS OF ADMISSION

As a Regular Student—Admission as a *matriculated student to the College of Arts and Sciences may be obtained by one of the following methods: (1) by certificate or diploma of graduation from an approved high school accompanied by acceptable scores in the Scholastic Aptitude Tests of the College Entrance Examination Board; (2) by transfer from another institution of higher education.

Admission by Certificate—Admission is granted to students who have graduated with a minimum of fifteen acceptable units from any high school accredited by a recognized standardizing agency, or by the State Board of Education, or by the State University of the State in which the high school is situated. The application for admission must be accompanied by a certificate from the high school showing the quantity and quality of work accomplished by the applicant and giving information about his personality, character, and health. These credentials must be supplemented by the student's scores in the Scholastic Aptitude Tests of the College Entrance Examination Board.

An applicant graduating in the lower third of his high school graduating class may not be admitted to the College of Arts and Sciences as a general rule. The Committee on Admissions is empowered to grant admission to such applicants by exception, pending review of the scores established by the student in the Scholastic Aptitude Tests of the College Entrance Examination Board.

Admission to Advanced Standing—Transfer Students—Advanced standing will be given, at the discretion of the Committee on Admissions, to an applicant who has fulfilled the high school requirements for admission and in addition presents a transcript of college credits certified by the proper official of the college or university attended showing all the scholastic work done in that institution and in all other institutions of collegiate rank previously attended, and giving the student honorable dismissal. Credits presented from a non-accredited institution will be accepted rarely, at the discretion of the Committee on Admissions, and only if the student has made satisfactory grades in his first semester's work at Loyola University College of Arts and Sciences. *No transfer*

* A matriculated student is one who has fulfilled all entrance requirements, paid all fees that are due, and is pursuing regular courses leading to a degree.

student will be accepted unless he has attained a "C" average for all hours attempted during the preceding year at the college from which he transfers, has a general "C" average for all hours attempted previously in college, and no faculty action has been taken against him. Credits presented for work done by correspondence will not be accepted.

II. As a Special Student—A limited number of mature persons who are not eligible for admission into the University by certificate may be admitted as special students under the following conditions: (1) they must be at least twenty-one years of age; (2) they must not have been in attendance in high school during the previous year; (3) they are to present all available certified credits of previous school work, together with formal application for admission as special students, stating the subject courses desired and the reasons for desiring those courses. When no certified credits can be presented, the applicant must furnish a detailed statement of all previous educational work and practical experience.

By virtue of his classification, a special student is not eligible for any degree nor is his college work accredited until he successfully completes entrance examinations. He may ultimately become a candidate for a degree by completing the admission requirements of the department in which he wishes to register. Upon successful completion of entrance examinations, his previous college work is accredited.

Registration as a special student is for one semester only. Registration for a following semester will be refused if the student has not shown satisfactory earnestness and definiteness of purpose, or if his work has not been satisfactory in the preceding semester. No one may register in the University as a special student for more than two years.

III. As an Out-of-Course Student—A limited number of earnest students of mature years, who, though fully qualified for admission to the College as regular students, do not wish to register as candidates for a degree, but merely want to pursue particular studies for cultural purposes, may be permitted to register as out-of-course students, provided they have obtained the recommendation of the Chairman of the Department

in which they wish to register, and the written permission of the Dean. Such recommendation and permission will not be given to applicants who are not evidently qualified to pursue profitably the desired courses.

The credits earned by an out-of-course student may not be applied toward the fulfillment of requirements for a degree unless he changes his academic status to that of a regular student. Out-of-course students must make this change within the first four semesters if the credits are to be used towards an academic degree. At the beginning of each semester they must make written application to the Dean for the privilege of registering for that semester. This privilege will be granted only to those applicants who have shown, during the preceding semester, a satisfactory definiteness and earnestness of purpose.

ADMISSION REQUIREMENTS

For admission to the College of Arts and Sciences at least fifteen acceptable high school units are required of which twelve must be in strictly academic courses. In general, these units should show several sequences of subject-matter adapted to the course to which admission is sought.

1. All students must present the following units.

	Units
*English	4
History, Civics	2
Elementary (College Preparatory) Mathematics ..	1
Intermediate (College Preparatory) Mathematics ..	1
**Latin or Modern Foreign Language	2
Science	1
Academic Elective	1

2. In general, only three units will be accepted from the following group.

	Units		Units
Bookkeeping	1	Economics	$\frac{1}{2}$ - 1
Commercial Law	$\frac{1}{2}$ - 1	Music	1
Commercial Geography ..	1	Shop Work	1
Drawing—Mechanical	1	Stenography	$\frac{1}{2}$
Drawing—Freehand	1	Typewriting	$\frac{1}{2}$

*One unit in English may be replaced by a unit in Speech or Journalism.

**These units may be waived and supplied by scheduling Elementary Language Courses in College.

3. A student may not register for a subject course which presupposes specific high school preparation, unless he has completed such preparation. Any deficiency in such preparation will make it necessary for him to take those basic courses which the University judges advisable. Credit for that work may or may not be allowed, according to the circumstances of the case.

STUDENT FEES

Students are expected to pay the full tuition for one semester on the day of registration of each semester unless they are following the Tuition Plan described below.

All arrangements for payment must be made before the completion of registration with the Treasurer of the University.

Tuition for eight complete semesters is required of all full time students, regardless of the number of hours taken during any one semester.

TUITION PLAN — MONTHLY PAYMENTS

We are glad to offer the convenient Tuition Plan for those parents who prefer to pay tuition and other fees in equal monthly installments. The following plans are available at the cost indicated:

One Year Plan	(8 payments)	4% more than Cash Price
Two Year Plan	(20 payments)	5% more than Cash Price
Three Year Plan	(30 payments)	6% more than Cash Price
Four year Plan	(40 payments)	6% more than Cash Price

The two, three and four year plans include Parent Life Insurance for qualified parents. This insurance coverage provides funds for the cost of the remaining period of schooling covered by the contract, if the parent who has signed the contract dies. A descriptive pamphlet will be sent upon request from the Director of Admissions.

The Tuition Plan is optional and offered solely as a convenience.

The following are the tuition and fees in the College of Arts and Sciences:

FULL TIME STUDENTS

Tuition and basic fees (per semester)	\$350.00
Matriculation fee	5.00
Registration fee (per semester)	5.00

Late registration fee (per semester).....	5.00
Subject change fee.....	2.00
Student Center Fee.....	20.00
Graduation fee.....	25.00
Cap and gown deposit and rental.....	30.00
Observation and Student Teaching fee.....	75.00
Late examination fee.....	2.00
Transcript (after first).....	2.00
Locker rental (per semester).....	1.50
R.O.T.C. deposit (refundable).....	25.00
Fee per year for each science laboratory	10.00

The basic fee includes tuition, library, subscription to the *Loyola Maroon and Wolf*, athletics, physical education and certain other student activities.

The matriculation fee is charged only at the time of a student's first registration in the College of Arts and Sciences.

The graduation fee and the Cap and Gown deposit are paid by Seniors on the date designated in the Session Calendar. Provided the cap and gown are returned in good condition immediately after graduation \$25.00 will be refunded to the student. If they are returned more than two months after graduation, only \$10.00 will be refunded.

The late examination fee will be charged for any examination taken later than the assigned date, no matter what the excuse. Except for sickness, no late examination will be given unless permission is obtained from the Dean prior to the regularly scheduled examination.

When a student requests more than five transcripts at one time he is charged two dollars for the first copy and fifty cents for each additional one.

Students will be taxed for excessive breakage or destruction of University property. The decision covering each case will be made by the University.

Until a student's indebtedness is paid in full, no transcript

of credits or record of his work will be released from the University.

A fee of two dollars will be charged for every change of course, after the student's schedule has been completed.

PART TIME STUDENTS

No student will be admitted on a part time basis in the regular Fall and Spring sessions of the academic year. Students may attend Saturday classes on a part time basis during the Fall and Spring sessions.

Students taking less than twelve semester hours are considered part time students.

The tuition fee for all part time courses is \$20.00 per semester hour, except for accredited teachers and members of a religious community.

For accredited teachers who are at present engaged in teaching, the tuition fee is \$15.00 per semester hour. The teacher's certificate accompanied by a statement of present employment should be presented to the Registrar for inspection at the time of registration.

For students who are members of a religious community, the charges are \$10.00 per semester hour.

All part time students in the College of Arts and Sciences are charged a registration fee of \$5.00 each semester. A matriculation fee of \$5.00 is charged when a student registers for the first time. Auditors do not pay a matriculation fee.

Additional part time fees are:

Library fee (per semester)	\$ 5.00
Science laboratory fee (per semester).....	15.00
Observation and Student Teaching fee.....	75.00
Late examination fee.....	2.00
Transcript (after first).....	2.00
Late registration fee.....	5.00
Graduation fee.....	25.00
Cap and gown deposit (and rental).....	30.00

REFUND POLICY

It is the sole duty of the individual, in case of official withdrawal from the College, to make formal application to the Finance Office for any refund of tuition. Refunds are determined, not according to the amount already paid by the student, but according to a percentage of the total tuition payable in the semester in which the student withdraws. Refunds are made on the following basis:

Within first week of semester	80 %
One week to three weeks of semester.....	60 %
Three weeks to five weeks of semester	40 %
No refund after five weeks.	

No refunds are made when a student is suspended, dismissed for disciplinary reasons, or fails to pass in prescribed or elected courses.

Special consideration regarding refunds will be given to students either voluntarily entering the Armed Services or being drafted.

STUDENT HOUSING

MEN'S RESIDENCE HALL

Loyola University's new residence hall for men is a completely air-conditioned six-story building providing accommodations for 400 men. It is located on the north side of the campus near Freret street on a direct city bus line to the heart of the city. The building is well arranged for individual study and group activities.

FACILITIES

Each room provides for two students, each having a private locker, desk and sleeping facilities. Each floor has a large lounge and study room. There is a TV room on the first floor as well as a large lounge. An infirmary is located in the building. Laundry service will be available in the building.

ACTIVITIES

The residence hall has been designed with the students' academic, spiritual, cultural and recreational needs in mind. Priest-chaplains will be available, day and night. Student supervisors will assist in the operation of the residence. Group activities are planned. The Field House and Student Center nearby offer facilities for many sports and recreational activities. Conditions conducive to quiet study will be maintained on the various floors.

COSTS

All out-of-town undergraduate men are required to reside in the residence hall. The cost per semester for room and board is \$450. Arrangements are made for residents to take their meals in a special dining room of the Student Center.

RESERVATIONS

All students who will reside in the Campus Residence Hall must deposit \$150 upon receiving their letter of acceptance for admission to Loyola University. This deposit is deductible from the tuition and room and board, but is not refundable upon cancellation. Upon receipt of this deposit by the University the Dean of Students will make the necessary reservation.

WOMEN'S RESIDENCES

ON CAMPUS

The University owns two residences adjoining the campus at 6318 and 6324 Freret Street. These houses are next to the Loyola Field House, within walking distance of academic buildings and the Student Center.

OFF CAMPUS

Due to the rapid increase in out-of-town enrollments and the advent of a building program it has been necessary to secure private homes in the University section. These homes have been approved by the University and must follow the same rules that govern all women resident students.

These houses are within short walking distance to the campus, a shopping area, and the Student Center.

FACILITIES

Laundry facilities are available at each residence. Single, double and triple rooms are available. Kitchen privileges or kitchenettes are available in each dorm for snacks. Contract meals are taken in the University Student Center with all other resident students.

COST

All room rents are paid in two payments—first semester and second semester. The first payment is \$175 and the second, \$140 i.e., \$315 per school year. Meals are paid for according to residence assignments. The cost of meals is listed in a separate housing brochure.

RESERVATIONS

Reservations are made by returning the housing request to the Dean of Women after the applicant has been notified by the Director of Admissions that she is eligible for admission and after she has sent to the Director of Admissions the required \$150 deposit. The \$100 and the \$50 are deductible from the tuition and the housing facilities, respectively, but are not refundable in case of cancellations.

Administrative Procedure

REGISTRATION PROCEDURE

Prior to registration a record of all previous work done in high school or college should be on file in the Office of Admissions. Students registered for a degree in other approved institutions need not file entrance credentials unless they are applying to transfer to Loyola. Satisfactory proof, however, of good standing in those institutions should be presented together with a letter from their Dean approving the courses they intend to schedule.

Students must register within the prescribed time at the beginning of each semester before being permitted to advance in course.

INSTRUCTION

The unit of instruction is one hour a week for one semester. Two hours of work in a laboratory are considered equivalent to one hour of class work. Students may receive credit only for the number of hours published for a course. No credit will be allowed for a course for which a student is not registered as a regular student.

A student is required to take a minimum of twelve semester hours of work each semester. Attendance as auditors is not granted without written permission of the Dean.

WITHDRAWAL FROM THE UNIVERSITY

A student who withdraws from the University during a semester before taking the final examinations of the semester forfeits all credit for work done in that semester.

To withdraw officially from the University a student must:

- 1) Obtain withdrawal forms from the Office of the Registrar.
- 2) Obtain signatures of designated officials on withdrawal forms. (These forms will not be signed until the student has cleared all obligations to the University).

WITHDRAWAL IS NOT COMPLETE OR OFFICIAL UNTIL ALL SIGNATURES HAVE BEEN OBTAINED

AND FORMS ARE RETURNED TO THE OFFICE OF THE REGISTRAR.

Those students who withdraw officially from the University *prior* to mid-semester examinations will not have grades recorded in those courses for which they were registered at the time of withdrawal.

All students who withdraw officially from the University *after* the mid-semester examinations will be assigned a grade for each course for which they were registered at the time of withdrawal. If the grade is passing at the time of withdrawal a grade of WP will be assigned. If the grade is failing, a grade of WF will be assigned which shall indicate a failure in the course.

THOSE STUDENTS FAILING TO COMPLETE OFFICIAL WITHDRAWAL FROM THE UNIVERSITY WILL INCUR A GRADE OF WF IN ALL COURSES FOR WHICH THEY ARE REGISTERED. THESE GRADES ARE PLACED ON THE STUDENT'S PERMANENT RECORD AND ARE NOT SUBJECT TO CHANGE. STUDENTS ARE REMINDED THAT THEY MUST COMPLETE OFFICIAL WITHDRAWAL FROM THE UNIVERSITY BEFORE THE TERMINATION OF THE SEMESTER IN WHICH THEY HAVE REGISTERED.

SCHEDULE CHANGES

A student desiring to drop a scheduled course or to add another course after his semester's schedule has been filed in the Registrar's Office should consult with his Adviser or the Chairman of the Department in which he is registered from whom he should obtain written permission to revise his schedule. This written permission should be presented by the student to the Dean for approval. Permission to add a course or change from one section to another will not be granted after the date indicated in the Session Calendar as the last day for schedule adjustments.

Students remaining in the University who drop one or more courses after the date indicated in the Session Calendar as the last day for schedule adjustments will be assigned a grade for the course or courses. If the grade is passing at the time the course is dropped a grade of WP will be assigned. If the grade is failing, a grade of WF will be assigned which will indicate a failure in the course.

In the case of a student who is called to active duty in any branch of the armed services before the date for final examinations in the semester, the following exceptions to the formal regulations have been made:

1. Should a second semester senior be called to military service within six weeks of the date of commencement exercises, he will have the dates of his final examinations advanced, and, if he passes successfully, he will be granted full credit and his degree.
2. A senior in his first semester, or a junior, sophomore, or freshman in either semester who is called into military service within four weeks of the end of the semester will have his examination dates advanced, and, if he passes successfully, be granted full credit for the semester.
3. A notation of the action taken by the University in accordance with the provisions made above will be made on the records and transcripts of the students who have received full credit under these provisions.

ATTENDANCE

The University is insistent on regular and punctual attendance. Each tardiness, defined as a student's failure to be present when his name is called at the beginning of each class or laboratory, will be counted as a third of an absence.

The student coming late is responsible for seeing that the instructor changes the absence noted at the beginning of the class to a tardiness.

Any student incurring more than six absences in a course which carries three or more semester hours will be dropped from the course automatically. In courses of less than three semester hours the maximum number of absences will be double the number of semester hours, e.g. in a two semester hour course, four absences will be the maximum allowed; in a one semester hour course, two absences will be the maximum.

Students who have exceeded the maximum number of absences will have a right to petition the Committee on Attendance for reinstatement.

Students petitioning reinstatement should do so within twenty-four hours after they receive notification that they have been dropped from a course. The petition must be submitted by letter to the Dean of Students and must include the reason for each absence, giving dates, etc. While the petition is be-

ing reviewed by the Committee on Attendance the student will be permitted to attend classes. The decision of the Committee on Attendance will be final. Extended absences due to sickness must be verified by a doctor's certificate.

Students entering class more than five minutes after the starting bell will be recorded absent.

Absences for any excuse whatever do not exempt a student from quizzes, tests, examinations, or other written work required during the period of absence. The responsibility for making up such work rests wholly upon the student. A failing grade for the omitted work will be charged against the student if he does not fulfill his obligations within the time limit determined by his professors.

DISCIPLINE

The educational system of this University includes, as one of its most important features, the formation of character. It is expected that each student will be so loyal to the spirit and ideals of the University that the exercise of proper self-control will come from his own convictions and free determination.

It is intended that the college regulations be a guide and help to foster the conduct which is presupposed in every Loyola student. The College requires regular and punctual attendance at all scheduled exercises, observance of college customs and regulations, serious application to study; and exemplary demeanor in all college activities. A student who is deficient in these essential points will be suspended or dismissed.

The University reserves the right to dismiss at any time a student who fails to give satisfactory evidence of earnestness of purpose and of interest in the serious work of college life. In rare cases a student may be dismissed for a reason that seems to students and parents to be insufficient. In such cases the University is to be considered the more capable judge of what affects the interests both of the institution and of the student body.

GRADES AND REPORTS

A report of the semester grades made by a student in his scheduled subjects is sent to the student at the middle and end of each semester. Other reports will be sent by the Dean whenever he judges it advisable to do so.

Grades are reported as follows: "A," excellent; "B," very good; "C," good; "D," merely passing; "F," failed; "W," withdrawal from subject course with permission; "WF," withdrawal with failing grade or failure because of excessive absences; "WP," withdrawal with passing grade.

Semester grades are determined as follows:

Pre-examination work in first half of semester.....	20 %
Mid-Semester Examination	20 %
Pre-examination work in second half of semester	20 %
Final Examination	40 %

Official grades are expressed in letters, not numbers. The numerical values of the letters used are as follows: A—93 to 100; B—85 to 92; C—77 to 84; D—70 to 76; F—0 to 69.

SCHOLASTIC STANDING

The standing of a student is computed on all hours attempted excluding authorized withdrawals. All attempts at a course which has been failed and repeated or which has been repeated to raise the quality of work will be counted in computing a student's scholastic standing.

QUALITY OF WORK

A candidate for a degree must present not only the required character and quantity of work, but he must attain a certain standard of excellence in his work, especially in his major and minor areas of concentration. Hence, the candidate for a bachelor's degree must earn, in addition to the minimum of 128 semester hours of credit, an average grade of "C" or better. Moreover, a student must make a "C" average in each area of his field of concentration and a "C" average in upper division courses contained in each area.

QUALITY POINT RATING

No student will be permitted to graduate unless he has established a quality point average of 2.0 in his work towards the desired degree.

N. B. The quality point average is determined by dividing the total of quality points earned by the total hours attempted.

Quality points are earned in the following manner: for the grade of "A," in a subject course, the student is credited with four times as many quality points as semester hours allowed for that course; for the grade of "B," three times

as many quality points as semester hours; for the grade of "C," twice as many quality points as semester hours; for the grade of "D," the same number of quality points as semester hours; for the grade of "F," no quality points are merited.

With the special permission of the Dean, a student may repeat a course already successfully completed with a grade of "C" or "D" in order to better the quality of his work. No third attempt will be allowed. Courses in which a grade of "B" has been earned may not be repeated. In computing the student's general average and quality point average in the major field, all attempts will be counted. In computing the quality point average in the minor fields, only the higher grade will be counted in the case of courses which have been repeated.

SCHOLASTIC PROBATION AND DISMISSAL

1. In order that students maintain the required academic standing and continue in course, the following minimum standards must be met:

- a) a quality point average of 1.7 for the first semester
- b) a total quality point average of 2.0 for the second semester
- c) a total quality point average of 2.0 after the second semester and every subsequent semester.

Students failing to meet these specified requirements will be placed on probation for one semester. If a student is unable to raise his quality point average to the required minimum after one semester of probation, he will be subject to dismissal from the College.

Only rarely and for very grave reasons will the probation of a student be extended beyond one semester.

2. Students who have not established a 2.0 general average and a 2.0 average in their major and minor fields of concentration at the end of their sophomore year must remedy their deficiencies before beginning their upper division major or minor work.

3. Students on scholastic probation will schedule no more than 16 and no less than 12 semester hours.

REPETITION OF COURSES

A student who has failed a course will be allowed to repeat that course when it is next offered. No more than two repetitions of the same course will be allowed to any student.

CLASSIFICATION OF STUDENTS

Those students are ranked as Sophomores who have credit for twenty-four semester hours; Juniors, those who have fifty-six semester hours; Seniors, those who have ninety-two semester hours. Students not included in any of these classifications are registered either as special students or as out-of-course students.

REQUIREMENTS FOR UNDERGRADUATE DEGREES

Semester Hours and Field of Concentration — To receive a baccalaureate degree, a student is required to complete at least 128 semester hours, distributed normally throughout eight semesters in such manner as to include in his last four semesters a field of concentration consisting of 30 to 36 semester hours of upper division work in related courses, 18 of which must be taken from one field and 12 from one or more related fields.

Major Field of Concentration — To establish a major field of study a student must complete successfully a minimum of 12 semester hours in lower division courses and 18 semester hours in upper division courses.

Minor Field of Concentration — To establish a minor field of study, which must be related to the major field of study, a student must complete successfully a minimum of 12 semester hours in lower division courses and 12 semester hours in upper division courses.

Those students who choose Philosophy as a minor field of concentration must establish 9 semester hours in lower division courses and 15 semester hours in upper division courses.

Any exceptions to these regulations governing both major and minor fields of concentration must be approved in writing by the departmental chairman and the Dean.

Before the end of his Sophomore year, the student, with the assistance of the Chairmen of the Departments, will select his field of concentration. No student will be permitted to begin his field of concentration unless he has the rating of a Junior,

has completed his lower division course requirements, has an average of "C" for all courses completed and has an average of "C" in the lower division subject courses of the major and minor fields he intends to elect. The field, as outlined by the Chairman, must be submitted in duplicate form to the Dean for his approval. After such approval, any change in the student's field of concentration is not allowed without permission of the Dean. Ordinarily such a change will prolong the time required for a degree. Students who have transferred from another college must complete their last 32 hours and 50 per cent of their field of concentration in residence.

PERMISSION TO TAKE COURSES AT OTHER UNIVERSITIES

Students who wish to schedule courses at other colleges and have such courses recognized as partial fulfillment of their Degree Program at Loyola must obtain the written permission of the Dean before such courses are scheduled.

Failure to obtain such written permission will render the courses unacceptable to Loyola. Courses in which a grade of "D" is earned will not be accepted as transfer credit.

Distribution of Course Requirements in Degree Programs

Subject Requirements	A.B.	B.S.S.	B.S.	B.S. Sec. Ed.	B.S. Elem. Ed.	B.S. Phy. Ed.	B.S. Med. Tech.
Education				24	38	20	
English	12	12	12	12	12	12	12
Greek	12 ¹						
History	12	12	6	6 ²	9 ²	6 ²	
Latin	12						
Mathematics	6	6	6-10	6	6	6	3
Modern Language	12	12	12				12
Music					3		
Philosophy	21	21	18	18	18	18	18
Physical Education				4	8	33	
Science	8	8	18-32	12	12	18	44
Social Science	12 ¹	12		6 ²	6 ²	6 ²	
Speech		6			3		
Theology	16	16	16	16	16	16	16

¹Candidates for A.B. Degree may elect Greek or Social Sciences.

²A total of 12 semester hours in History (including American History), Economics, and Sociology. Three additional semester hours in Louisiana History for Elementary Education.

THEOLOGY REQUIREMENTS

All Catholic students must fulfill the requirements of 16 semester hours in Theology.

Non-Catholics are not required to fulfill the theology requirements. Transfer students must schedule a course in Theology for each semester they are in residence at Loyola University.

PHILOSOPHY REQUIREMENTS FOR TRANSFER STUDENTS

Transfer students must complete successfully a course in Philosophy for every semester in residence.

SCIENCE REQUIREMENTS

The following are specific lower division requirements in the major fields of concentration:

1. Major field in Physics and Mathematics:
Physics 10 hours; Chemistry 8 hours; Mathematics 10 hours.
2. Major field in Chemistry:
Chemistry 16 hours; Physics 10 hours; Mathematics 10 hours.
3. Major field in Biology:
Biology 16 hours; Chemistry 16 hours; Mathematics 6 hours.
4. Major field in Medical Technology:
Medical Technology 51 hours; Biology 16 hours; Chemistry 17 hours.

COMBINED DEGREES

A student who has completed the Junior year in the College of Arts and Sciences may enter upon his professional studies and after one year of such studies may receive a degree from the College of Arts and Sciences, provided he has fulfilled the following requirements:

(1)—Before transferring to the professional studies he must have completed all the courses and examinations of the College of Arts and Sciences specifically required for the academic degree and must file a formal application for the degree in the Office of the Registrar.

(2)—He must have been registered during the entire year as a Senior in the College of Arts and Sciences and as a First Year student or Freshman in the professional school in which he is taking his professional studies, and his program of first year studies in the professional school must have been approved at the beginning of the session by the Dean of the College of Arts and Sciences.

(3)—He must have completed successfully the first year of his professional studies as required by the professional school for his promotion to the second year of professional studies in that school, although not more than twenty-two semester hours of such studies will be accepted toward his academic degree.

(4)—He must not be under any official censure either in the College of Arts and Sciences or in the professional school.

(5)—He must see that an official record of the studies which he has taken and the grades he has made in them during the first year of professional studies, together with a statement that he has been promoted to the second year of professional studies and that he is not under any official censure in the professional school, be sent by the Dean of the professional school to the Dean of the College of Arts and Sciences.

(6)—If he chooses the option of entering a professional school or college as a candidate for a combined degree after completing three years in the College of Arts and Sciences he must complete all the requirements for the combined degree upon the termination of the first year in the professional school or college. Failure to do so renders the candidate ineligible for a degree in the College of Arts and Sciences at any subsequent date.

ELIGIBILITY FOR GRADUATION

In addition to the above requirements, the following regulations must be observed:

(1)—The candidate for a degree must either submit a thesis of approximately 5,000 words on a particular phase of his major subject, or must take a comprehensive examination in his major subject, depending upon the regulations of the department of his field of concentration.

(2)—A. Before writing his thesis the student must obtain from the Chairman of the department of his field of concen-

tration the approval of the subject of his thesis. He must present to his Chairman two copies of the completed thesis not later than the date assigned in the Session Calendar. The Chairman's approval of the thesis is required for graduation.

B. If the student is to take a comprehensive examination, the field of examination is to be determined by the Chairman of the Department of his major subject, before the end of the Junior year.

(3)—At the beginning of the scholastic year in which the candidate expects to complete the work required for his degree he must present to the Registrar a formal application for that degree.

(4) Before the date designated in the Session Calendar, the candidate must pay his graduation fee and discharge all other financial indebtedness to the University.

(5) All candidates for degrees must be present at the Award Day Ceremonies, the Baccalaureate Services and the Commencement Exercises. Absence from any one of these exercises will render the candidate ineligible for Graduation.

The student may not be excused from Commencement Exercises except for very grave reasons and only with written permission of the Dean.

TEACHER EDUCATION AND CERTIFICATION

No student will be certified to teach in elementary or secondary schools unless the student fulfills all the requirements of the teacher education curriculum and a degree has been conferred in one of the following teaching fields: Bachelor of Science in Elementary Education, Bachelor of Science in Secondary Education, or Bachelor of Science in Physical Education.

Student teaching for one semester must be completed under the supervision of the Department of Education of Loyola University.

Those holding degrees in academic fields other than teacher education and who desire to be certified as teachers must obtain a teacher education degree before Loyola University will recommend them for certification.

GRADUATION HONORS

Graduation honors are computed according to the quality point system. A student's graduation average is determined by dividing the total number of quality points earned by the total number of semester hours attempted by the student during his entire course. Semester hours carried include all hours attempted, excluding authorized withdrawals, but including all attempts at a course which has been repeated in order to raise the total of quality points. A student who has made an average of 3.5 graduates *cum laude*; one who has made an average of 3.7 *magna cum laude*; one who has made an average of 3.9 *summa cum laude*. Record of these honors is inscribed on the diplomas and noted in the list of graduates published for the Commencement Exercises.

KNOWLEDGE OF REGULATIONS

Every student is to acquaint himself with all the regulations of the University that pertain to him. Ignorance of a regulation is not accepted as an excuse for its violation. These regulations are to be learned from the General Bulletin of the University, the Student Handbook, official instructions given to the students, and posted official notices. When a student registers in the University, it is understood that both the student and the student's parents or guardians agree to the student being governed by the regulations of the University, and will abide by decisions that may be made by officials of the University regarding the student.

Programs of Study

BACHELOR OF ARTS

FRESHMAN

Course No.	Sem.	Hrs.
Philosophy	201-202	6
English	101-102	6
Latin	103-104	6
Language	101-102 (Mod.)	6
Sociology	101-102	6
or		
Greek	101-102	6
Theology	105-106	4
		<hr/> 34

SOPHOMORE

English	201-202	6
Latin	201-202	6
Language	201-202 (Mod.)	6
Mathematics	111-112	6
Sociology	205-206	6
or		
Greek	201-202	6
Philosophy	203-301	6
Theology	213-210	4
		<hr/> 40

JUNIOR

History	101-102	6
Philosophy	302-303	6
Science		8
Theology	309-310	4
Field of Concentration		12
		<hr/> 36
		36

SENIOR

History	201-202	6
Philosophy		3
Theology	311-312	4
Field of Concentration		18
		<hr/> 31
		31

BACHELOR OF

SOCIAL SCIENCES

FRESHMAN

Course No.	Sem.	Hrs.
English	101-102	6
Philosophy	201-202	6
History	101-102	6
Language	101-102 (Mod.)	6
Sociology	101-102	6*
Theology	105-106	4
		<hr/> 34
		34

SOPHOMORE

English	201-202	6
Sociology	205-206	6
Language	201-202 (Mod.)	6
Mathematics	111-112	6
Philosophy	203-301	6
Theology	213-210	4
		<hr/> 34
		34

JUNIOR

Philosophy	302-303	6
History	201-202	6
Science		8
Theology	309-310	4
Field of Concentration		12
		<hr/> 36
		36

SENIOR

Speech	101-102	6
Philosophy		3
Theology	311-312	4
Field of Concentration		18
		<hr/> 31
		31

Military Science required in all degree programs for male freshmen and sophomores.

Theology required in all degree programs for Catholic students.

Non-Catholic students substitute electives for Theology.

*Those preparing for studies in Law may elect Psc. 101-102.

BACHELOR OF SCIENCE
(Biology)

FRESHMAN

Course No.	Sem. Hrs.
English 101-102	6
German 101-102	6
Mathematics 111-112	6
Theology 105-106	4
Chemistry 111-112	6
Chemistry 113-114	2
Biology 107-108	8
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	38

SOPHOMORE

English 201-202	6
German 201-210	6
Philosophy 201-202	6
Theology 213-210	4
Chemistry 211-212	4
Chemistry 213-214	4
Biology 201-202	8
	<hr/>
	38

JUNIOR

History 201-202	6
Philosophy 203-301	6
Theology 309-310	4
Physics 201-203	8
Chemistry 331-332	6
Chemistry 333-334	4
Biology 301-302	8
	<hr/>
	42

SENIOR

Philosophy 302-303	6
Theology 311-312	4
Biology 304-	4
Biology 312-	3
Biology 315-316	2
Biology 317-	2
Chemistry 327-328	6
Chemistry 329-330	2
Electives	6
	<hr/>
	35

Premedical Honors*
Combined Degree
(B.S.—Biology)

FRESHMAN

Course No.	Sem. Hrs.
English 101-102	6
Mathematics 111-112	6
Philosophy 201-202	6
Theology 105-106	4
Chemistry 111-112	6
Chemistry 113-114	2
Biology 107-108	8
	<hr/>
	38

SUMMER SESSION

Physics 201-203	8
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SOPHOMORE

English 201-202	6
German 101-102	6
Philosophy 203-301	6
Theology 213-210	4
Chemistry 211-212	4
Chemistry 213-214	4
Biology 201-202	8
	<hr/>
	38

SUMMER SESSION

Chemistry 331-332	6
Chemistry 333-334	4

JUNIOR

History 202-	3
German 201-210	6
Theology 309-310	4
Philosophy 302-303	6
Chemistry 327-328	6
Chemistry 329-330	2
Biology 301-302	8
Biology 315-(316)	1
Biology 304-	4
Biology 317-	2
	<hr/>
	42

*Completion of this three year program with a B average or better merits graduation the year following completion of the program.

BACHELOR OF SCIENCE
EDUCATION
(Elementary Education)

FRESHMAN

Course No.		Sem. Hrs.
Science	101-102	8 ¹
Education	100-102	6
Education	152-155	6
English	101-102	6
History	201-202	6
Theology	105-106	4
Phys. Educ.	150-151	4

40

SOPHOMORE

Education	230-254	6
English	201-202	6
Speech	101-	3
Philosophy	201-202	6
Science		4
Music	258-	3
Social Studies		6 ²
Theology	213-210	4

38

JUNIOR

Education	352-353	6
Education	333	3
History	-361	3
Mathematics	111-112	6
Phys. Educ.	389-390	4
Philosophy	203-301	6
Theology	309-310	4
Electives		6 ³

38

SENIOR

Education	350-	6
Education	354-355	6
Philosophy	302-303	6
Theology	311-312	4
Electives		6 ³

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BACHELOR OF SCIENCE
EDUCATION
(Secondary Education)

FRESHMAN

Course No.		Sem. Hrs.
Education	100-102	6
English	101-102	6
History	201-202	6
Science	101-102	8 ¹
Philosophy	201-202	6
Theology	105-106	4

36

SOPHOMORE

Education	301-302	6
English	201-202	6
Mathematics	111-112	6 ¹
Philosophy	203-301	6
Science		4
Teaching Field		6 ⁴
Theology	213-210	4

38

JUNIOR

Philosophy	302-303	6
Education	333-351	6
Phys. Educ.	150-151	4
Theology	309-310	4
Field of Concentration		12 ⁵
Social Studies		6 ²

38

SENIOR

Education	-350	6
Theology	311-312	4
Field of Concentration		18 ⁴

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¹ Students not preparing to teach science may fulfill the 12 semester hours requirement in the sciences by taking Bl 103, Ch 103, Ph 103.

² Economics, Sociology, or Political Science.

³ Students preparing to teach Mathematics or Science take Mathematics 125-257.

⁴ This course is selected by students only after consultation with academic adviser.

⁵ Field of Concentration includes 18 semester hours of professional work in Education, and at least 12 semester hours of upper division work in the teaching area or areas. The student should endeavor to include in his program at least one additional teaching field. The adviser must be consulted concerning specific certification requirements. In general, these are: English, 24 semester hours; Speech, 18 semester hours; Journalism, 12 semester hours; Foreign Language, 24 semester hours for the first field of specialization and 18 semester hours for the second Foreign Language; Social Studies, 24 semester hours, including 3 semester hours in Political Science; Science, 24 semester hours, including Bl. 101-2, Ch. 101-2, Ph. 201-3, plus 4 additional semester hours in the science to be taught. Students preparing for certification in Business Education must present 36 semester hours of work. This includes typewriting, 6 semester hours; shorthand, 9 semester hours; accounting, 9 semester hours, and related courses in business and economics, 12 semester hours. If the student is preparing for certification in two fields, the 12 semester hours of upper division work in the teaching area may be divided between these two fields.

⁶ Electives must be courses in one area.

BACHELOR OF SCIENCE (Physical Education)

FRESHMAN			JUNIOR		
Course No.		Sem. Hrs.	Course No.		Sem. Hrs.
Biology	101-102	8	Education	301-302	6
Education	100-102	6	Education	351-333	6
English	101-102	6	Philosophy	203-301	6
Mathematics	111-112	6	Social Studies		6 ¹
Theology	105-106	4	Theology	309-310	4
Phys. Educ.	150-151	4	Phys. Educ.	361-362	6
Phys. Educ.	162-	2	Phys. Educ.	260-261	4*
			Phys. Educ.	265-268	4**
		36			(38*) 38**
SOPHOMORE			SENIOR		
Biology	205-206	6	Philosophy	302-303	6
English	201-202	6	Science		4
History	201-202	6	Education	350-	6
Philosophy	201-202	6	Theology	311-312	4
Theology	213-210	4	Phys. Educ.	363-364	6*
Phys. Educ.	160-161	4*	Phys. Educ.	360-	2*
Phys. Educ.	262-263	3*	Phys. Educ.	389-390	4**
Phys. Educ.	160-165	4**	Phys. Educ.	387-	3**
Phys. Educ.	266-263	3**	Phys. Educ.	388-	2
		(35*) 35**			(30*) 29**

*Courses for men.

**Courses for women.

¹ World History may be substituted for one social science course. Economics, Sociology or Political Science may be used for other 3 hours.

BACHELOR OF SCIENCE
(Mathematics—Regular)BACHELOR OF SCIENCE
(Mathematics—Advanced)

FRESHMAN

Course No.		Sem. Hrs.
English	101-102	6
German	101-102	6
Mathemat.	125-257	10
Physics	111-112	10
Theology	105-106	4
		<hr/> 36

FRESHMAN

Course No.		Sem. Hrs.
English	102-202	6
German	101-102	6
Mathemat.	257-258	10
Physics	111-112	10
Theology	105-106	4
		<hr/> 36

SOPHOMORE

English	201-202	6
German	201-210	6
Mathemat.	259-260	6
Philosophy	201-202	6
Physics	221-305	8
Theology	210-213	4
		<hr/> 36

SOPHOMORE

English	201-307	6
German	201-210	6
Mathemat.	260-352	6
Philosophy	201-202	6
Physics	221-305	8
Theology	210-213	4
		<hr/> 36

JUNIOR

Chemistry	111-112	6
Chemistry	113-114	2
*Mathemat.	343-344	6
Mathemat.	363-362	6
Philosophy	301-203	6
Physics	350-351	6
Theology	309-310	4
		<hr/> 36

JUNIOR

Chemistry	111-112	6
Chemistry	113-114	2
*Mathemat.	343-344	6
Mathemat.	361-362	6
Philosophy	301-203	6
Physics	350-351	6
Theology	309-310	4
		<hr/> 36

SENIOR

History	101-102	6
Mathemat.	311-321	6
*Mathemat.	347-348	6
Mathemat.	361-362	6
Philosophy	302-303	6
Theology	311-312	4
Physics		3
		<hr/> 37

SENIOR

History	101-102	6
Mathemat.	311-321	6
*Mathemat.	347-348	6
Mathemat.	363-364	6
Philosophy	302-303	6
Physics		3
Theology	311-312	4
		<hr/> 37

* Mt. 343-344 and Mt. 347-348 will be taught in alternate years.

BACHELOR OF SCIENCE-PHYSICS
AND
BACHELOR OF SCIENCE-HONORS PHYSICS

REGULAR FRESHMAN			ADVANCED FRESHMAN		
Course No.		Sem. Hrs.	Course No.		Sem. Hrs.
Chemistry	111-112	6	Chemistry	115-**	7
Chemistry	113-114	2	Chemistry	116-**	1
English	101-102	6	English	101-102	6
Mathemat.	125-257	10	Mathemat.	257-258	10
Physics	111-112	10	Physics	111-112	10
Physics	140-141	0	Physics	140-141	0
Seminar	100-	0	Seminar	100-	0
Theology	105-106	4	Theology	105-106	4
		38			38
SOPHOMORE			SOPHOMORE		
English	201-202	6	English	201-202	6
Mathemat.	259-260	6	Mathemat.	260-352	6
Philosophy	201-202	6	Philosophy	201-202	6
Physics	221-222	8	Physics	221-222	8
Physics	210-305	6	Physics	210-305	6
Physics	Elective	2-4	Physics	Elective	2-4
Seminar	200-	0	Seminar	200-	0
Theology	213-210	4	Theology	213-210	4
		38-40			38-40
JUNIOR			JUNIOR		
German, or	101-102		German, or	101-102	
Russian	101-102	6	Russian	101-102	6
Mathemat.	** -352	6	Mathemats.	361-362	6
Philosophy	301-203	6	Philosophy	301-203	6
Physics	350-351	6	Physics	350-351	6
Physics	345-346*	10-5	Physics	345-346*	10-5
Physics	Electives	2-7	Physics	Elective	2-7
Seminar	300-	0	Seminar	300-	0
Theology	309-310	4	Theology	309-310	4
		40			40
SENIOR			SENIOR		
History	101-102	6	History	101-102	6
German, or	201-210		German, or	201-210	
Russian	201-202	6	Russian	201-202	6
Mathemat.	361-362	6	Mathemats.	**	6
Philosophy	302-303	6	Philosophy	302-303	6
Physics	Elective	6-12	Physics	355, 6 or 7	3
Seminar	399-	0	Physics	Electives	3-9
Theology	311-312	4	Seminar	399-	0
		34-40	Theology	311-312	4
		34-40			34-40

* Optional.

** Course to be scheduled at direction of adviser.

BACHELOR OF SCIENCE
(Chemistry)

and

BACHELOR OF SCIENCE
(Chemistry-Honors Program*)

FRESHMAN

Course No.		Sem.	Hrs.
Mathemat.	125-257	-----	10
Chemistry	111-112	-----	6
Chemistry	113-114	-----	2*
Theology	105-106	-----	4
English	101-102	-----	6
Physics	111-112	-----	10
			<hr/>
			38

SOPHOMORE

English	201-202	-----	6
Philosophy	201-202	-----	6
Mathemat.	259-260	-----	6
Physics	221-222	-----	8
Chemistry	211-213	-----	4
Chemistry	336-338	-----	4
Theology	213-210	-----	4
			<hr/>
			38

JUNIOR

German	101-102	-----	6
Philosophy	203-301	-----	6
History	101-102	-----	6
Chemistry	331-332	-----	6
Chemistry	333-334	-----	4
Chemistry	337-339	-----	4
Chemistry	342-344	-----	3
Theology	309-310	-----	4
			<hr/>
			39

SENIOR

Philosophy	302-303	-----	6
German	201-210	-----	6
Chemistry	343	-----	3
Chemistry	345or347	-----	3
Advanced			
Chem Lec.	Electives	-----	6
Advanced			
Chem. Lab.	Electives	-----	4
Theology	311-312	-----	4
			<hr/>
			52

BACHELOR OF SCIENCE
(Medical Technology)

FRESHMAN

Course No.		Sem.	Hrs.
Chemistry	111-112	-----	6
Chemistry	113-114	-----	2
Biology	101-102	-----	8
English	101-102	-----	6
Mathemat.	111	-----	3
Philosophy	201-202	-----	6
Theology	105-106	-----	4
Med. Tech.	101-102	-----	3
Med. Tech	104	-----	2
			<hr/>
			40

SUMMER SESSION

Biology	209	-----	4
Med. Tech	204	-----	4
			<hr/>
			8

SOPHOMORE

Med. Tech.	305	-----	2
Med. Tech.	307	-----	2
Chemistry	322	-----	2
Chemistry	324	-----	2
English	201-202	-----	6
Philosophy	203-301	-----	6
Theology	213-210	-----	4
Language	101-102	-----	6
Med. Tech.	201-202	-----	4
Med. Tech.	203-204	-----	4
			<hr/>
			38

JUNIOR

Chemistry	323	-----	3
Chemistry	325	-----	2
Med. Tech.	306	-----	2
Med. Tech.	308	-----	2
Biology	301	-----	4
Philosophy	302-303	-----	6
Theology	309-310	-----	4
Language	201-202	-----	6
Med. Tech.	301-302	-----	4
Med. Tech.	303-304	-----	6
			<hr/>
			39

SENIOR

Theology	311-312	-----	4
Med. Tech.	390-391	-----	16
			<hr/>
			20

* For requirements for ACS certification, honors program, and for one semester equivalent of 111-112, 113-114, see the main Chemistry entry under Departments of Instruction.

BACHELOR OF SCIENCE (Psychology)

FRESHMAN

Course No.		Sem. Hrs.
English	101-102	6
Mathematics	111-112	6
Philosophy	201-202	6
Theology	105-106	4
Biology	101-102	8
Chemistry	111-112	6
Chemistry or Physics	113-114 201-202	2
		<hr/> 38

SOPHOMORE

Biology	205-206	6
English	201-202	6
Language	101-102	6
Philosophy	301-303	6
Theology	213-210	4
Psychology	102-103	6
Psychology	104	3
		<hr/> 37

JUNIOR

History	201-202	6
Language	201-202	6
Philosophy	302-303	6
Theology	309-310	4
Field of Concentration		12
		<hr/> 34

SENIOR

Theology	311-312	4
Field of Concentration		24
		<hr/> 28

PRE-LEGAL PROGRAM

FRESHMAN

Course No.		Sem. Hrs.
English	101-102	6
History	101-102	6
Latin	103-104	
or		6
Speech	203-204	
Language	101-102	6
Mathematics	111-112	6
Philosophy	201-202	6
Theology	105-106	4
		<hr/> 40

SOPHOMORE

English	201-202	6
Sociology	205-206	6
Latin	201-202	
or		6 or 8
Science		
Language	201-202	6
Philosophy	203-301	6
Theology	213-210	4
		<hr/> 34-36

JUNIOR

Philosophy	302-303	6
Philosophy	307-308	6
Major Subject		12
Minor Subject		6
Theology	309-310	4
		<hr/> 34

SUMMER SESSION

Major Subject	6
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BACHELOR OF SCIENCE

(Journalism)

FRESHMAN

Course No.	Sem. Hrs.
English 101-102	6
History 101-102	6
Journalism 201-202	4
Journalism 221-222	2
Journalism 242-243	4
Mathematics 111-112	6
Theology 105-106	4
Language Modern	6
	<hr/> 38

SOPHOMORE

English 201-202	6
History 201-202	6
Journalism 203-204	6
Journalism 206-207	2
Philosophy 201-202	6
Theology 213-210	4
Language Modern	6
	<hr/> 36

JUNIOR

Journalism 301-302	4
Journalism 306-307	6
Journalism 340-341	4
Philosophy 203-301	6
Theology 309-310	4
Science	8
Minor Elective	6
	<hr/> 38

SENIOR

Journalism 315-316	6
Journalism 333-334	4
Philosophy 302-303	6
Philosophy	3
Theology 311-312	4
Speech 101-102	6
Minor Elective	6
	<hr/> 35

BACHELOR OF SCIENCE

(Public Relations—
Journalism)

FRESHMAN

Course No.	Sem. Hrs.
English 101-102	6
History 101-102	6
Journalism 201-202	4
Journalism 206-207	2
Mathematics 111-112	6
Language 101-102 (Mod.)	6
Pub. Relations 244-245	4
Theology 105-106	4
Journalism 221-222	2
	<hr/> 40

SOPHOMORE

English 201-202	6
History 201-202	6
Journalism 203-204	6
Language 201-202 (Mod.)	6
Philosophy 201-202	6
Pub. Relations 308-309	6
Theology 213-210	4
	<hr/> 40

JUNIOR

Journalism Electives	10
Minor Elective	6
Science	8
Philosophy 203-301	6
Pub. Relations 317-318	4
Theology 309-310	4

SENIOR

Journalism Electives	10
Minor Elective	6
Philosophy 302-303	6
Philosophy	3
Pub. Relations 319-320	4
Speech 101-102	6
Theology 311-312	4
	<hr/> 39

The following are required courses for students minoring in Journalism:

Lower division—Jr. 201-202; 203-204; 221-222

Upper division—Jr. 301-302; 305-316; 333-334

The following are required courses for students minoring in Pub. Relations:

Lower division—Pr. 244-245; Jr. 201-202; Jr. 221-222

Upper division—Pr. 308-309; Pr. 317-318 or 319-320; Jr. 333-334

PRE-DENTAL PROGRAM
(No Combined Degree)

LIBERAL ARTS
REQUIREMENTS FOR
PHARMACY DEGREE

FRESHMAN

Course No.	Sem.	Hrs.
Biology	101-102	8
Chemistry	111-112	6
Chemistry	113-114	2
English	101-102	6
Mathematics	111-112	6
Philosophy	201-202	6
Theology	105-106	4
		<hr/> 38

FRESHMAN

Course No.	Sem.	Hrs.
Chemistry	111-112	6
Chemistry	113-114	2
English	101-102	6
Mathematics	111-112	6
Biology	107-108	8
Philosophy	201-202	6
Theology	105-106	4
		<hr/> 38

SUMMER SESSION

Physics	201-203	8
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SOPHOMORE

SOPHOMORE		
Chemistry	331-332	6
Chemistry	333-334	4
Biology	205-206	8
English	201-202	6
Philosophy	203-301-303	9
Theology	213-210	4
		<hr/> 37

Physics	201-203	8
Chemistry	211-212	4
Chemistry	213-214	4
Philosophy	301-	3
Economics	200-	3
Biology	201-	4
Theology	213-210	4
Accounting	100-	3
		<hr/> 33

NURSING EDUCATION

Students in training at the Hotel Dieu School of Nursing are provided purchase-of-course instruction at the College. These students are duly registered in the College and subject to all regulations governing the admission and matriculation of students of the College of Arts and Sciences. Student nurses

must attend regularly scheduled courses on the college campus. The College of Arts and Sciences does not grant a degree in Nursing Education, although credit in the purchase-of-course instruction is transferable and applicable to a collegiate degree.

Course No.	Sem.	Hrs.
Biology	109-110	6
Biology	122	4
Chemistry		8
Philosophy	101-2	6
Sociology	108	3
English	101	6
		<hr/> 33

BACHELOR OF SCIENCE

(Television Programming-
Production)

FRESHMAN

Course No.		Sem.	Hrs.
English	101-102	-----	6
Mod. Lang.	101-102	-----	6
Philosophy	201-202	-----	6
Speech	101-102	-----	6
Theology	105-106	-----	4
Television	101-102	-----	6
			<hr/> 34

SOPHOMORE

English	201-202	-----	6
Journalism	206-207	-----	2
Mathematics	111-112	-----	6
Mod. Lang.	201-202	-----	6
Philosophy	203-301	-----	6
Theology	213-210	-----	4
Television	201-202	-----	6
Television	203-204	-----	4
			<hr/> 40

JUNIOR

History	101-102	-----	6
Science		-----	8
Philosophy	302-303	-----	6
Theology	309-310	-----	4
Television	301-302	-----	6
Television	304-	-----	2
Television	305-306	-----	4
Television	307-308	-----	4
			<hr/> 38

SENIOR

History	201-202	-----	6
Philosophy	211 or 311	-----	3
Theology	311-312	-----	4
Television	351-	-----	2
Television	357-358	-----	6
Television	361-362	-----	6
Television	363-	-----	3
Electives		-----	6
			<hr/> 36

BACHELOR OF SCIENCE

(Television Sales
Management)

FRESHMAN

Course No.		Sem.	Hrs.
English	101-102	-----	6
Mod. Lang.	101-102	-----	6
Philosophy	201-202	-----	6
Speech	101-102	-----	6
Theology	105-106	-----	4
Television	101-102	-----	6
			<hr/> 34

SOPHOMORE

English	201-202	-----	6
Journalism	206-207	-----	2
Mathematics	111-112	-----	6
Mod. Lang.	201-202	-----	6
Philosophy	203-301	-----	6
Theology	213-210	-----	4
Television	201-202	-----	6
Television	203-204	-----	4
			<hr/> 40

JUNIOR

Course No.		Sem.	Hrs.
History	101-102	-----	6
Philosophy	302-303	-----	6
Sociology	101-102	-----	6
Theology	309-310	-----	4
Television	305-306	-----	4
Television	311-312	-----	6
Television	351-	-----	2
			<hr/> 34

SENIOR

Theology	311-312	-----	4
Television	353-354	-----	6
Television	355-	-----	3
Television	357-	-----	3
Television	-362	-----	3
Electives		-----	16
			<hr/> 35

Reserve Officers Training Corps

The Department of the Army maintains a General Military Science ROTC unit at Loyola. Students admitted to the Advanced Course may, prior to graduation, request a Reserve commission in a branch in which their professional major will qualify them. Instruction is given in subjects common to all branches of the Army.

All physically fit male students of the College of Arts and Sciences, except veterans, are required by the institution to participate in two years of Military Training, normally during their first two years.

SENIOR ROTC PROGRAM

The Senior ROTC program consists of two parts: (1) Basic Course and (2) Advanced Course, including a summer camp.

(1) Basic Course. The Basic Course consists of formal instruction for a minimum of three hours per week for two academic years of at least 30 weeks. The Department of the Army permits the Professor of Military Science, at his discretion, to grant up to two years credit in the basic course for previous active service in the Armed Forces. In certain cases, credit is also granted for prior ROTC instruction at other educational institutions.

(2) Advanced Course. The Advanced Course consists of advanced instruction in general military subjects, for a minimum of five hours per week for two academic years of at least 30 weeks each. Entrance to the Advanced Course is limited to those students taking an academic course on the college level, who have completed the basic course or received credit for prior service as prescribed above.

SUMMER CAMP

Members of the Advanced Course are required to attend camp one summer, normally between the first and second year. All students going to camp receive mileage for the round trip from school at the rate of 5 cents per mile and are housed, uniformed and given medical attention at gov-

ernment expense while at the camp. The duration of camp is six weeks and begins about the middle of June.

The military training will consist of practical and theoretical instruction. In addition to this training, the student has an opportunity to participate in healthy outdoor sports of all kinds and in competition with young men from other colleges. All students attending camp should take with them athletic shorts, tennis shoes and swimming suit. A well planned religion program is conducted at the camp by experienced chaplains.

DISTINGUISHED MILITARY STUDENTS

Military Students who have completed the First Year Advanced Course are considered for selection. A Distinguished Military Student is an individual designated as such after careful consideration of his qualifications by the President of the University and the PMS. He must possess outstanding qualities of leadership, high moral character, a definite aptitude for the military service, and he must have demonstrated his leadership ability through his accomplishments while participating in recognized campus activities. Also, he must have sufficient standing in both military and academic subjects.

DISTINGUISHED MILITARY GRADUATES

Those graduates who have completed the entire ROTC Course and who have been selected by the President of Loyola University for scholastic excellence, may be designated as "Distinguished Military Graduates" by the Professor of Military Science, as possessing outstanding qualities of leadership, character and aptitude for Military Service. Such "Distinguished Military Graduates" are considered in selections for appointment in the Regular Army if application is made prior to graduation.

DRAFT DEFERMENTS

The ROTC deferment procedure is primarily designed to permit selected members of the ROTC to qualify for appointment as commissioned officers of a component of the Army through uninterrupted completion of academic courses. Deferment will not be granted to a student who cannot ultimately qualify for a commissioned appointment through

enrollment and training afforded by the ROTC or who evidences lack of desire to become an officer of the Army. Students who sign a Deferment Agreement are required to:

(1) Complete the basic course, if enrolled therein; at the proper time enroll in and complete the advanced course, if accepted therefor.

(2) Accept appointment as a commissioned officer in a component of the Army, if tendered.

(3) Serve on active duty for a period of not less than two years after receipt of commission, if so ordered by the Secretary of the Army.

(4) Remain a member of an active or reserve component of the Army until the eighth anniversary of a receipt of commission if required by Department of the Army.

NATIONAL SOCIETY OF PERSHING RIFLES

The Pershing Rifles is a National Honorary Military Society. Its aim is to encourage, develop and preserve the highest ideals of the military profession, to promote American citizenship, to create a closer and more effective relationship between cadets of various colleges and universities and to provide appropriate recognition of military ability and application among the cadets of the Senior Division, Reserve Officers' Training Corps. Application for membership may be made by any basic cadet in good scholastic and leadership standing.

NATIONAL SOCIETY OF SCABBARD AND BLADE

The National Society of Scabbard and Blade is an organization for uniting in closer relationship the military departments of American universities and schools; for preserving and developing the essential qualities of good and efficient officers; for preparing individuals as educated men to take a more active part and have a greater influence in the military affairs of the communities in which they reside; and to spread intelligent information concerning the military requirements of this country. Membership is by selection from the members of the Advanced course, upon approval of National Headquarters.

ASSOCIATION OF THE UNITED STATES ARMY

The Association of the United States Army is a national military organization. The Association promotes a closer affiliation between the military and academic departments. It offers to the military student an opportunity to gain a true insight of the purpose and activities of the United States Army. One of the many projects of the AUSA Chapter is the Ranger program designed to help students acquire a high degree of physical fitness and tactical proficiency.

ENROLLMENT AND CONTINUANCE

The general requirements for enrollment and continuance in the ROTC are that the student be a citizen of the United States, physically qualified as prescribed by the Department of the Army, accepted by the institution as a regularly enrolled student, be not less than 14 years of age and must not have reached 23 years of age at time of enrollment and agree in writing upon admission to the Advanced ROTC Course (1) to complete the course of instruction offered unless released by the Department of the Army, and (2) accept a Reserve Commission if tendered.

ACADEMIC CREDIT

Academic Credit is granted for the completion of the Military Course on the basis indicated below:

	1st Semester	2nd Semester	Total Credit Hours
Basic 1st Year.....	2	2	4
Basic 2nd Year.....	2	2	4
Advanced 1st Year.....	3	3	6
Advanced 2nd Year.....	3	3	6

EMOLUMENTS

During enrollment in the Advanced Course, the student is paid a monthly allowance in lieu of subsistence, which comes to around \$535 for the two-year course. Students attending ROTC summer camp, also receive \$117 for the six week period and receive a travel allowance of five cents a mile to and from the camp.

UNIFORMS

All ROTC students are required to deposit \$25.00 with the Treasurer of the University prior to enrollment in the Basic and Advanced Course. The student will then secure

the prescribed uniforms and insignia from the ROTC supply room. Necessary repair or replacements of articles or uniforms must be made by the students. The uniform deposit will be returned to the student upon completion or authorized withdrawal from the course, providing articles or uniforms are returned in good condition. (Advanced Course students awarded a commission will be permitted to retain uniforms). Final settlement will be made by the Treasurer's Office.

TEXTS AND EQUIPMENT

The Government will provide the necessary texts and equipment to carry out the ROTC Program on a loan basis to the student.

RIFLE TEAMS

Rifle teams will be selected through individual competition, and will represent the ROTC in Matches sponsored by Fourth U. S. Army, and in matches with other colleges and universities. The firing is conducted with modern small bore rifles on an indoor range.

THE BASIC COURSE

Military Instruction is of a general type applicable to the Army as a whole, and is for the purpose of providing the student with a foundation of basic military knowledge for future officers.

MILITARY SCIENCE I (101-2) (1st year) (90 hours)	
SUBJECT	HOURS
Organization of The Army and ROTC	5
Individual Weapons and Marksmanship	10
U. S. Army and National Security	14
Counter Insurgency Operations	1
Leadership Laboratory	30
Academic Subjects	30

MILITARY SCIENCE II (201-2) (2nd year) (90 hours)	
SUBJECT	HOURS
Map and Aerial Photograph Reading	15
Introduction to Operations and Basic Tactics	15
American Military History	29
Counter Insurgency Operations	1
Leadership Laboratory	30

THE ADVANCED COURSE

Students who successfully complete the Basic Course may apply for enrollment in the Advanced Course. Students with prior training at an institution having a recognized ROTC unit or with active military service, may be given credit toward completion of the Basic Course requirement.

Students must pass a prescribed physical examination prior to enrollment.

In general, students selected for the Advanced Course are those who have demonstrated, in the Basic Course, outstanding qualities of command leadership and who possess the mental, moral and physical characteristics indicative of Army Officer potential.

MILITARY SCIENCE III (301-2) (3rd year) (150 hours)

SUBJECT	HOURS
Leadership	16
Military Teaching Principles	18
Branches of The Army	24
Counter Insurgency Operations	2
Small Unit Tactics and Communications	55
Summer Camp Orientation	5
Leadership Laboratory	30

MILITARY SCIENCE IV (351-2) (4th year) (150 hours)

SUBJECT	HOURS
Operations	50
Logistics	20
Military Law	15
Army Administration	15
Service Orientation	10
Role of The United States in World Affairs	8
Counter Insurgency Operations	2
Leadership Laboratory	30

Departments of Instruction

The courses of instruction in all departments of the College of Arts and Sciences are numbered in accordance with the following plan:

Lower division courses, numbered from 100 to 299, are, in general, introductory, and basic.

Upper division courses are numbered from 300 to 399. For these courses, basic training in the same or in allied subjects is a prerequisite.

Graduate courses are numbered from 400 to 600.

The college credit allowed for a course is stated in terms of semester hours.

The following is a list of the key letters used to indicate the different courses of instruction:

Biology.....	Bl	Military Science.....	MS
Chemistry	Ch	Philosophy.....	Pl
Education	Ed	Physical Education....	Ped
English.....	En	Physics.....	Ph
French.....	Fr	Political Science.....	Psc
German.....	Gr	Psychology.....	Psy
Greek	Gk	Public Relations.....	Pr
History.....	Hs	Russian.....	Rs
Journalism.....	Jr	Sociology.....	Sl
Latin.....	Lt	Spanish.....	Sp
Library Science.....	LS	Speech.....	Sh
Mathematics	Mt	Theology.....	Th
Medical Technology....	Md	Television.....	TV

Department of Biological Sciences

Rev. John H. Mullahy, S.J., Ph.D., *Chairman*

Course Offerings — 1963-1964

Fall: Bl. 101, 103, 107, 109, 201, 205, 301, 303, 315, 317, 320, 353

Spring: Bl. 102, 108, 110, 122, 202, 206, 302, 304, 306, 308, 310, 312, 314, 316, 317

Bl. 101—General Botany

The basic principles of plant morphology and physiology. The evolution, distribution, genetics and economic importance of plants are briefly considered. This course is designed primarily for education majors, medical technologists and pre-dental students. Two lectures and two laboratory periods. 4 sem. hrs.

Bl. 102—General Zoology

A comprehensive study is made of typical invertebrate and vertebrate animals with emphasis on their structure, function, ecology and evolution. This course is designed primarily for education majors, medical technologists and pre-dental students. Two lectures and two laboratory periods. Prerequisite: Bl. 101. 4 sem. hrs.

Bl. 103—Cultural Biology

A lecture demonstration course in the essentials of biology designed specifically as an orientation course for those whose interests lie in the sphere of the humanities. May not be used as a prerequisite for advanced courses. 4 sem. hrs.

Bl. 107-8—General Biology

An intensive study of the fundamental properties of living things, their structure, functions, classifications, life histories and evolution. This course is required for all pre-medical and pre-pharmacy students and biology majors. Two lectures and two laboratory periods. 8 sem. hrs.

Bl. 109-110—Human Anatomy and Physiology

Lectures and demonstrations, gross and microscopic, on the structures and functions of the human body. Two lectures and two laboratory periods. This course is designed for student nurses. 6 sem. hrs.

Bl. 122¹—Microbiology

This course embraces bacteriological techniques, the classification and properties of important non-pathogenic and pathogenic bacteria, molds, and viruses. The principles of immunity and serology are briefly treated. Two lectures and two laboratory periods. This course is designed for student nurses. 4 sem. hrs.

Bl. 201—Comparative Anatomy of the Vertebrates

Laboratory study of type vertebrates, accompanied by lectures on vertebrate phylogeny and anatomy. Two lectures and two laboratory periods. Prerequisite: Bl. 107-108 or equivalent. 4 sem. hrs.

Bl. 202—General Embryology

A study of the origin and maturation of germ cells, fertilization, and the formation of germ layers in certain typical invertebrate and vertebrate animals. Knowledge of the development of the systems of a vertebrate is obtained by study of whole mounts and serial sections of the chick and pig. Two lectures and two laboratory periods. Prerequisite: Bl. 108. 4 sem. hrs.

Bl. 205-6—Anatomy, Physiology and Kinesiology

A lecture demonstration course designed to give the student of Physical Education thorough and practical knowledge of these basic sciences. Required for Pre-Dental students. Prerequisite: Bl. 101-102 or equivalent. 6 sem. hrs.

Bl. 209—Mammalian Anatomy

A lecture and laboratory study presented as a basis for the understanding of human anatomy. Detailed dissection of the cat and anatomical studies of other vertebrates are included. This course is restricted to Medical Technologists. Prerequisites: 2 semesters of Biology. 4 sem. hrs.

Bl. 301—Bacteriology

This course embraces bacteriological technique, the classification and study of the properties of important non-pathogenic and pathogenic bacteria. The principles of immunity, serology and virology are also considered. Two lectures and two laboratory periods. Prerequisites: General Biology and two years of Chemistry. Including Organic Chemistry which may be taken concurrently. 4 sem. hrs.

Bl. 302—General Histology

The study of the microscopic structure of tissues and organs of the mammalian body, and the study of the fundamentals of hematology. Two lectures and two laboratory periods. Prerequisite: Bl. 201. 4 sem. hrs.

Bl. 303—Mammalian Physiology

An introductory study of biochemical and physical-chemical process in the mammalian animal. Designed for students of Pharmacy. Prerequisite: Bl. 201 and Organic Chemistry. 4 sem. hrs.

Bl. 304—General Physiology

An introductory study of physico-chemical processes in cells, tissues and organs. Three lectures and one laboratory period. Prerequisite: Bl. 201 and two years of chemistry. 4 sem. hrs.

Bl. 306—Animal Microtechnique

A course in the principles and methods of preparing animal material for microscopical study. The student is given practice in fixing, embedding, sectioning, staining, and mounting tissues; the preparation of whole mounts. Two lecture and two laboratory periods a week. Prerequisite: Bl. 302 4 sem. hrs.

Bl. 308—Plant Physiology

Higher plants will be the principal object of study, with regard to their growth processes, water relations, and photosynthetic activities. The laboratory will illustrate modern techniques of investigation as well as the principles of the discipline involved. Prerequisites: General Botany and Organic Chemistry. 4 sem. hrs.

Bl. 309—Introduction to Animal Ecology

The relationships of animals to each other, to plants and to the physical and chemical factors of the environment. Prerequisite: Bl. 107-108. 4 sem. hrs.

Bl. 310—Introduction to Field Zoology

The taxonomy, life histories and habitats of the animals common to South Louisiana. Prerequisite: Bl. 107-108. 4 sem. hrs.

Bl. 312—Cytogenetics

A presentation of cell structure with emphasis on chromosomes. The relationships between classical and contemporary genetics and cellular biology will be considered. Prerequisite: General Biology. 3 sem. hrs.

Bl. 315-16—History and Philosophy of Biology

Discussion of the historical development and philosophical implications of biology. Required of all pre-medical students and biology majors. Prerequisite: Bl. 107-108 and Bl. 201. Two lectures. 2 sem. hrs.

Bl. 317—Introduction to Biological Research

Special work for advanced students, includes both library and laboratory research. Weekly oral and/or written reports are required. Two-year course; grade assigned upon completion of the Spring Semester of senior year. Required of all upper division biology majors. 2 sem. hrs.

Bl. 320—Plant Anatomy

A consideration of the structure and development of seed plants (primarily Angiosperms). Reference will be made to the relationships of anatomy and developmental patterns to the physiology and morphogenesis of the organism. Prerequisite: General Botany. 4 sem. hrs.

Bl. 353—An Introduction to Radiation Science

A survey of the nature, measurement, and effect of ionizing radiations in biological systems. Designed to acquaint the beginner with theory and methods of use of radiation as a research tool. Geiger counter techniques will be used primarily; absorption and half-life experiments, tracer methods, biological uptake and distribution, isotope dilutions and similar topics will be covered in lectures and in laboratory. Prerequisite: Discretion of professor in charge of the course. 3 sem. hrs.

Juniors and Seniors in the Department of Biological Sciences are expected to serve as assistants. Students holding scholarships are expected to serve as assistants in the department in return for the scholarship grant. In all other cases the student's earnings are applied to his tuition expenses.

Department of Chemistry

Rev. H. R. Jolley, S.J., Ph.D., *Chairman*

Two degree programs are offered by the Chemistry Department:

- 1.) B. S. — Chemistry (Honors Program)
- 2.) B. S. — Chemistry

The Chemistry Department is on the Approved List of the American Chemical Society for Professional Training in Chemistry. Students who graduate with either the degree B.S.-Chemistry (Honors Program), or B. S.-Chemistry, will be certified to the American Chemical Society as having met the standards of its Committee on Professional Training.

The revised Chemistry curriculum described in these pages was inaugurated with the academic year 1962-1963. It more than meets the revised standards promulgated by the American Chemical Society in the Spring of 1962, when the Professional Training Committee decided that Approved Departments would have until 1965 to put them into effect.

The salient points of the new curriculum are as follows: 1) Students with strong high school background in Chemistry will have the opportunity to fulfill the requirements in Freshman Chemistry by taking a one-semester instead of a two-semester course. 2) Qualitative Analysis is now included in Freshman Chemistry. 3) Physical Chemistry is now begun in the second semester of Sophomore year instead of in the Junior year. 4) The number of laboratory hours in elementary Organic Chemistry has been increased so that the ACS requirements for elementary Organic Chemistry will be completed in the Junior year. 5) Intermediate level courses in Quantitative Analysis and Inorganic Chemistry have been introduced, with Physical Chemistry as a prerequisite. 6) A number of Advanced Courses have been introduced as electives in the Senior year, some purely lecture courses, some laboratory courses. Students in the ACS certified degree programs will be required to take three of these elective lecture courses, and two laboratory courses; the laboratory courses must be in the same Chemical Discipline as one of the lecture courses.

On the intermediate level, all students are required to take Ch. 342-344, Intermediate Analytical Chemistry Lecture and Laboratory, and Ch. 343, Intermediate Inorganic Chemistry Lecture. They will, however, have a choice between Ch. 345, Methods of Inorganic Synthesis, and Ch. 347, Qualitative Organic Analysis, with the approval of the Chairman.

Choice of advanced courses will be made by the student after consultation with his adviser and the Chemistry Faculty. This choice is aimed at putting the finishing touches on the student's undergraduate training in the field in which he intends to specialize, in graduate school, in industry, or in government. The advanced courses

to be taught in any given year will depend on needs of the senior class of that year. An upper division course in Physics or Mathematics will be accepted in place of one of the required advanced courses, with the approval of the Chemistry and Physics or Mathematics Chairmen.

An additional feature of the new curriculum is that two full years of Physics are required for ACS certification, except for those whose interests lie in the field of Biochemistry. These students may (1) take three semesters of Physics instead of four (2) take Biology 107-108 (3) choose Ch. 363 and 362, Advanced Biochemistry Lecture and Laboratory, among their advanced courses.

The course requirements for the two ACS certified degree programs are the same. In order to receive the degree B.S.-Chemistry (Honors Program), the student must: (1) Earn an over-all 3.0 quality-point ratio in his Chemistry courses over the four years. (2) Engage in, and do satisfactory independent work in a Chemistry project in each semester, beginning with the second semester of Freshman year. The quality of a student's project work each semester will be certified to the Departmental Chairman by the professor who directs the project. A student may continue on the same project for more than one semester, on the advice of the Departmental Chairman. (3) Present a seminar to the assembled department each year, beginning with the Sophomore year. (4) Take Thesis Research, Ch. 371 in his Senior year. This course includes completion of a research project and presentation of the results both as a thesis and as a departmental seminar.

Successful completion of the programs just described entitles the student to ACS certification and to a B.S.-Chemistry or B. S.-Chemistry (Honors Program) degree. Completion of 18 upper division hours in Chemistry from the group of courses Ch. 331-332, 333-334, 336-337, 338-339, 342-344, 343, 345, 327-328, 329-330, 347, plus the usual requirements in Mathematics, Physics and Liberal Arts, will fulfill the University requirements for a B.S. degree without specific designation. French will be acceptable instead of German for this degree and in Senior year, electives in Liberal Arts may be taken instead of the Advanced Chemistry Electives.

Sophomore, Junior, and Senior Chemistry Majors are expected to serve as student assistants to the extent judged appropriate by the Departmental Chairman. This work, which is an important part of their training, will earn partial remission of tuition except for those who already hold full scholarships.

Successful completion of both oral and written comprehensive examinations in Chemistry is a requirement for graduation in all three degree programs.

The placement of entering Freshmen in Ch. 115-117 (Chemistry Majors) or 115-116 (any science majors), will be made on the basis of the Achievement Test in Chemistry of the College Entrance Examination Board or an equivalent approved by the Departmental Chairman. Thus all prospective Science Freshmen should arrange to take the Advanced Chemistry Achievement Test when they take the College Entrance Board Examinations. Both Ch 115-116 and Ch 115-117 are the equivalent of Ch 111-112-113-114 that is, they are the equivalent of a full year course in freshman chemistry and satisfy the requirements of any degree program which requires a full year of freshman chemistry.

Course Offerings — 1963-1964

Fall: Ch. 111, 113, 115, 116, 117, 211, 213, 323, 325, 327, 329, 331, 333, 337, 339, 343, 345, 347.

Spring: Ch. 103, 112, 114, 212, 214, 322, 324, 328, 330, 332, 334, 336, 338.

Ch. 103—Chemistry for Non-Science Majors

A lecture-demonstration course in the essentials of chemistry for non-science majors. This course does not serve as a prerequisite for any other chemistry course. 4 sem. hrs.

Ch. 111-112—General Chemistry

A basic course in the fundamental principles of general chemistry. Intended for science majors whose high school background, as shown by the Chemistry Achievement Test of the College Entrance Board, indicates the need of a full-year course in Freshman Chemistry. Two semesters, three lectures per week. 6 sem. hrs.

Ch. 113-114—General Chemistry Laboratory

Accompanies Ch. 111-112. Includes qualitative analysis. Two semesters, two 2-hour laboratory periods per week. 2 sem. hrs.

Ch. 115—General Chemistry Lecture for Superior Students

An intensive, one semester course in the fundamental principles of general chemistry. Intended for science majors who qualify by their scores in the Chemistry Achievement Test of the College Entrance Board. One semester, three lectures per week. Prerequisite: Approval of the Chairman. 3 sem. hrs.

Ch. 116—General Chemistry Laboratory for Superior Students

Accompanies Ch. 115, for superior students, except Chemistry Majors, who qualify for Ch. 115. Includes qualitative analysis. One semester, one 3-hour laboratory period per week. 1 sem. hr.

Ch. 117—General Chemistry Laboratory for Superior Chemistry Majors

Accompanies Ch. 115. Includes qualitative analysis. One semester, one 3-hour laboratory period per week. Prerequisite: Approval of Chairman. 1 sem. hr.

Ch. 211—Inorganic Quantitative Analysis I

Basic principles of quantitative analysis. Stoichiometry, evaluation of measurements, acid-base equilibria, redox, precipitation, titrations and gravimetric methods. One semester, 2 lectures per week. Prerequisite: Ch. 111-114 or equivalent. 2 sem. hrs.

Ch. 212—Inorganic Quantitative Analysis II

A second semester course in quantitative analysis for those science majors except chemistry majors, who require a full year course in analytical chemistry. Ordinarily involved are pre-medical, pre-pharmacy and biology majors. Discussions will include statistical methods applied to analytical chemistry, quantitative separations, co-precipitation, the use of organic precipitants, EDTA, colorimetry, electro-metric methods, and chromatography. One semester, 2 lectures per week. Prerequisite: Ch. 211-213 or equivalent. 2 sem. hrs.

Ch. 213—Inorganic Quantitative Analysis Laboratory I

Basic techniques of quantitative analysis, including volumetric and gravimetric analyses, acidimetry and alkalimetry, redox methods, the use of adsorption indicators and iodimetry. One semester, two 3-hour laboratory periods per week. Prerequisite: Credit or registration in Ch. 211. 2 sem. hrs.

Ch. 214—Inorganic Quantitative Analysis Laboratory II

Laboratory experimentation will center around the topics listed in Ch. 212. One semester, two 3-hour laboratory periods per week. Prerequisite: Credit or registration in Ch. 212. 2 sem. hrs.

Ch. 322—Inorganic Quantitative Analysis Lecture for Medical Technology Majors

Discussions on the fundamental principles underlying analytical chemistry including chemical equilibrium, ionization, buffers, hydrolysis, acidimetry and alkalimetry, redox, precipitation methods and colorimetry. One semester, 2 lectures per week. Prerequisite: Ch. 111-114 or equivalent. 2 sem. hrs.

Ch. 323—Biochemistry Lecture for Medical Technology Majors

A brief introduction to fundamental principles in organic chemistry followed by the chemistry of carbohydrates, lipids, proteins, nucleic acids, digestion, metabolism, and nutrition. Aspects of clinical chemistry. One semester. Three lectures per week. Prerequisite: Ch. 322-324. 3 sem. hrs.

Ch. 324—Inorganic Quantitative Analysis Laboratory for Medical Technology Majors

Experimentation will include determinations in each of the divisions listed in Ch. 322. One semester, two 3-hour laboratory periods per week. Prerequisite: Credit or registration in Ch. 322. 2 sem. hrs.

Ch. 325—Biochemistry Laboratory for Medical Technology Majors

Selected experiments in conjunction with lecture material in Ch. 323. One semester. One four-hour laboratory period per week. Prerequisite: Credit or registration in Ch. 323. 2 sem. hrs.

Ch. 327-328—Biochemistry Lecture

A detailed study of the chemistry of carbohydrates, lipids, proteins, and nucleic acids. Digestion, metabolism, respiration and endocrinology. Aspects of clinical chemistry. Two semesters. Three lectures per week. Ordinarily intended for pre-medical students and biology majors. Prerequisites: Ch. 331-332, 333-334. 6 sem. hrs.

Ch. 329-330—Biochemistry Laboratory

Selected experiments in conjunction with lecture material in Ch. 327-328. Two semesters. One 4-hour laboratory period per week. 2 sem. hrs.

Ch. 331-332—Organic Chemistry Lecture

An intensive course in organic chemistry, covering structural theory, organic reaction mechanisms, stereochemistry, and type reactions of organic compounds. Two semesters, three lectures per week. Prerequisites: Ch. 111-114, Ch. 211-213 or approval of Chairman. 6 sem. hrs.

Ch. 333-334—Organic Chemistry Laboratory

Laboratory course to accompany Ch. 331-332. Introduction to laboratory techniques of organic chemistry: simple preparations, separation and identification of organic compounds. Two semesters, two 3-hour laboratory periods per week. Prerequisite: Credit or registration in Ch. 331-332. 4 sem. hrs.

Ch. 336-337—Physical Chemistry Lecture

A general survey of physical chemistry treating gaseous, liquid and solid states of matter, thermodynamics, the laws of solutions, chemical and physical equilibria, chemical kinetics, electrochemistry, colloids, elementary wave mechanics, atomic and molecular spectra, elementary statistical mechanics. Two semesters, 3 lectures per week. Prerequisites: General Chemistry, Quantitative Analysis, one year of college Physics, at least one semester of Calculus. 6 sem. hrs.

Ch. 338-339—Physical Chemistry Laboratory

Laboratory to accompany Ch. 336-337. Classical and modern techniques of physicochemical measurement. Includes molecular weights of gases and dissolved substances, vapor pressure, surface tension, viscosity and refractometry of liquids, calorimetry, thermochemistry, electrochemistry, electrolytic conductance, chemical equilibrium, phase diagrams, chemical kinetics, surface chemistry, spectrophotometry. Prerequisites: Same as 336-337. Two semesters, one 3-hour laboratory period per week. 2 sem. hrs.

Ch. 342—Intermediate Analytical Chemistry Lecture

A more rigorous physico-chemical treatment of the basic principles of quantitative analysis. The treatment will include statistical methods applied to analytical chemistry, quantitative separations, co-precipitation, the use of organic precipitants, EDTA, spectrophotometry, electrometric methods, and chromatography. One semester, 2 lectures per week. Prerequisite: Ch. 211-213 or equivalent. 2 sem. hrs.

Ch. 343—Intermediate Inorganic Chemistry Lecture

Nuclear structure and reactions, atomic structure, chemical bonding and periodicity. Inorganic stereochemistry and reaction mechanisms. acid-base theories and non-aqueous solvents. One semester, 3 lectures per week. Prerequisite: Credit or registration in Ch. 337. 3 sem. hrs.

Ch. 344—Intermediate Analytical Chemistry Laboratory

Accompanies Ch. 342. One semester, one 3-hour laboratory period per week. Prerequisite: Credit or registration in Ch. 342. 1 sem. hr.

Ch. 345—Synthetic Methods In Inorganic Chemistry

A laboratory course teaching theoretical principles as well as special laboratory techniques illustrated by carefully chosen syntheses of several types of compounds. One semester, one hour lecture, six hours laboratory per week. Prerequisites: Credit or registration in Ch. 337. 3 sem. hrs.

Ch. 347—Organic Qualitative Analysis

Review of properties of functional groups. Applications to separation of mixtures and identification of pure compounds. Application of quantitative and physical methods, such as infrared spectroscopy. One semester. One lecture and 6 hours laboratory per week. Prerequisite: Approval of the Chairman. 3 sem. hrs.

ADVANCED LECTURE COURSES

Each Chemistry Senior must choose three of these courses, except that one may be replaced with an upper division Physics or Mathematics course, with approval of the Departmental Chairman. All are one semester courses, two lectures per week, to be given in Fall or Spring depending on the Senior class. They fulfill ACS requirements for advanced lecture courses.

<i>Ch. 351—Advanced Physical Chemistry</i>	2 sem. hrs.
<i>Ch. 355—Theoretical Organic Chemistry</i>	2 sem. hrs.
<i>Ch. 357—Synthetic Organic Chemistry</i>	2 sem. hrs.
<i>Ch. 359—Advanced Inorganic Chemistry</i>	2 sem. hrs.
<i>Ch. 361—Advanced Analytical Chemistry</i>	2 sem. hrs.
<i>Ch. 363—Advanced Biochemistry</i>	2 sem. hrs.
<i>Ch. 365—Colloid Physical Chemistry</i>	2 sem. hrs.

ADVANCED LABORATORY COURSES

Chemistry Seniors must elect two of these courses, except that those in the Honors Program must take Ch. 371, Thesis Research, as one of them. Choices must be approved by the Department Chairman. The object of these courses is to train the student in research methods and techniques and develop the ability to work independently. They will usually involve finding and using selected methods in the original literature and doing some research.

<i>Ch. 352—Advanced Organic Chemistry Laboratory</i>	2 sem. hrs.
<i>Ch. 354—Advanced Inorganic Chemistry Laboratory</i>	2 sem. hrs.
<i>Ch. 356—Advanced Analytical Chemistry Laboratory</i>	2 sem. hrs.
<i>Ch. 358—Colloid Physical Chemistry Laboratory</i>	2 sem. hrs.
<i>Ch. 360—Advanced Physical Chemistry Laboratory</i>	2 sem. hrs.
<i>Ch. 362—Advanced Biochemistry Laboratory</i>	2 sem. hrs.
<i>Ch. 371—Thesis Research</i>	2 sem. hrs.

Special advanced offerings designed specifically for teachers of chemistry in high school will be presented in Institutes and other programs as demand and resources permit. These offerings will generally carry graduate credit and will be applicable toward the M.S. (Chemistry Teaching) degree. Applicants for such degree programs must fulfill the general requirements stated under The Graduate Division of Arts and Sciences in this bulletin.

Department of Education and Physical Education

Thomas J. Moran, Ph.D., *Chairman*

THE VOCATION OF TEACHING

In choosing and preparing for a vocation two factors should be considered: first, the opportunities afforded by the vocation, and, second, the requirements for entering and for achieving success in the vocation.

The prospective concentrator in Education may be attracted to the teaching profession by such opportunities and advantages as: economic security and tenure, social prestige, considerable leisure time, cultural opportunities, intellectual associations, the indulgence of life-long interests in ideas and books, pleasant working conditions and an adequate income, but we would prefer that his basic motivation stem from the realization of the nobleness and importance of the teacher's vocation wherein he may serve God and country by dedicating his life to the development and training of the minds and spirits of youth.

As Father James Keller says: "The teacher is one of the great channels whereby the heritage and traditions of a civilization are transmitted to the young, whose habits, ideas and way of life will determine the course of our national and world future. There can be no greater work for anyone for, as Cicero said, 'What nobler employment or more valuable to the state than that of the man who instructs the rising generation'."

The teacher has a vital and lasting influence upon the lives of his pupils. He assists them to acquire the tools of knowledge and instills in them an abiding desire to use those tools; he stimulates them to think for themselves; he inculcates in them, by precept and example, high ideals and points the way to the realization of those ideals; he teaches them to discipline themselves.

There is at present a heavy demand for well-trained elementary and secondary school teachers in all fields and conservative estimates indicate that this demand will be even greater during the next decade and thereafter. Thus both the immediate and long-range opportunities for employment are excellent.

For those interested in administrative and specialized careers in Education it may be pointed out that teaching experience is a prerequisite for those positions. A great number and variety of responsible and rewarding positions are open to teachers whose interests and talents lie in those fields.

In order to achieve success in the vocation of teaching the prospective concentrator in Education should possess the following characteristics:

1. Exemplary character
2. Above-average scholarship
3. Proficiency in oral and written expression
4. Interest in young people
5. Pleasing and well-rounded personality
6. Good health
7. Desire to teach.

Further requirements that will be met in the course of the concentrator's total undergraduate program include: 1. Broad, liberal education; 2. Knowledge of Subject Matter in the areas he will teach; 3. Professional knowledge and skill which will be developed in the education courses and in student teaching.

EDUCATION

Course Offerings — 1963-1964

Fall: Ed 100, 102, 152, 230, 301, 333, 350, 352, 354

Spring: Ed. 100, 102, 155, 254, 302, 310, 350, 351, 353, 355, Mu. 258

Saturday: Ed. 310, 354, 355

Ed. 100—Introduction to Education

An introduction to education through a study of the history of education and a survey of modern educational theory and practice culminating in actual observations of existing school conditions.

3 sem. hrs.

Ed. 102—Introductory Psychology

General introduction to the field of psychology preparatory to educational and developmental psychology. (Identical with Psy. 102)

3 sem. hrs.

Ed. 152—Geography for Teachers

This course deals with the basic concepts of general geography as an area of the social studies.

3 sem. hrs.

Ed. 155—Art for Elementary School Teachers

Practical experience in art at the elementary level.

3 sem. hrs.

Ed. 230—Child Psychology

Normal child development. Understanding and interpreting child behavior. (Identical with Psy. 230)

3 sem. hrs.

Ed. 254—Children's Literature

This course includes appropriate stories and poems of the accredited Louisiana Library List from the primary through the upper elementary level.

3 sem. hrs.

Ed. 301—The Modern High School

The development, objectives, curriculum, administration, and supervision of the high school; guidance and extracurricular activities and evaluation at the high school level.

3 sem. hrs.

Ed. 302—Adolescent Psychology

Study of the processes of growth and development in adolescence.
(Identical with Psy. 302) 3 sem. hrs.

Ed. 310—History of Education

The historical foundations of modern education; the aims and methods of education in our western civilization. 3 sem. hrs.

Ed. 333—Educational Psychology

Application of psychological principles to the educative process. Schools of psychology, motivation, learning, individual differences, psychological measurement. 3 sem. hrs.

Ed. 350—Student Teaching

Student teaching is that part of the professional laboratory experience designed to help the student to understand the work of the teacher and prepare the student for the responsibility of classroom teaching. The work of student teaching requires two full days and three half-days each week in an off-campus laboratory school designated for student teaching. During this time the student is engaged in directed observation, participation, frequent conferences with the Supervising Teacher, and at least 45 hours of actual teaching. Regularly scheduled weekly conferences, individual and group, are held with the College Supervisor. A student who is enrolled in Education 350 must be engaged in this work during the entire 18 weeks of the semester. He may schedule only 8 semester hours of work in addition to this course. At the secondary level student teaching must be in a subject in which the student will be certified. Anyone who is judged by the Department to have a major deficiency which would impair his efficiency as a teacher will be excluded from student teaching. Prerequisites for student teaching: A point-hour ratio of 2.25 quality points in the teaching field, and the successful completion of the junior year of the program that the student is following. There is a fee of \$75 for this course. 6 sem. hrs.

Ed. 351—Methods Related to Specific High School Courses

This course includes the psychology of specific high school subjects and the methods of teaching these subjects. 3 sem. hrs.

Ed. 352—The Teaching of Reading in the Elementary School

This course provides an understanding of the developmental and sequential reading needs for the elementary school child. Emphases are 1) to guide children to like to read; 2) to give children the working mastery of reading skills; 3) to study ways to remedy reading failure. 3 sem. hrs.

Ed. 353—The Teaching of the Social Studies and English in the Elementary School

This course is based upon the research findings to meet the needs of the elementary school child for understanding and learning to live in "Our World." Emphasis is upon learning to organize unit teaching, with special attention to English and Social Studies learnings. 3 sem. hrs.

Ed. 354—The Teaching of Science in the Elementary School

The offerings of nature study and elementary science toward the unification of the curriculum stressed through the use of visual aids. 3 sem. hrs.

Ed. 355—The Teaching of Arithmetic in the Elementary School

A review of arithmetic, the development of number concepts through insights and understandings growing out of the child's experience. The use and the interpretation of diagnostic materials and analysis of the abilities used in problem solving. 3 sem. hrs.

Mu. 258—Music Essentials and Methods for Elementary Teachers

A course for the elementary teacher in the fundamentals of music; elementary piano accompaniments; rhythm band activities; sociological and psychological uses of music. 3 sem. hrs.

PHYSICAL EDUCATION

Course Offerings — 1963-1964

Fall: Ped. 150, 160, 162, 260, 262, 265, 266, 361, 363, 389

Spring: Ped. 151, 161, 165, 261, 263, 268, 360, 362, 364, 387, 388

Saturday: Ped. 151, 390

Bl. 205-6—Anatomy, Physiology and Kinesiology

A lecture demonstration course designed to give the student of Physical Education thorough and practical knowledge of these basic sciences. Prerequisite: Bl. 101-102 or equivalent. 6 sem. hrs.

HEALTH:

Ped. 150—Introduction to Health and Safety

First aid and general principles of health and safety. 2 sem. hrs.

Ped. 362—Health Education, Course I

The history of health education, factual information, the administration of health examinations, modern trends in health education and the supervision of the program. 3 sem. hrs.

Ped. 364—Health Education, Course II (for Men)

Service and instructing in health, practical application of the principles of health for the teacher. 3 sem. hrs.

Ped. 387—Health Education, Course II (for Women)

Service and instructing in health, practical application of the principles of health for the teacher. 3 sem. hrs.

PRINCIPLES, ORGANIZATION AND ADMINISTRATION:

Ped. 151—Introduction to Physical Education

A course in the fundamentals of group activities, organization, rules and team play and the organization of intramurals. 2 sem. hrs.

Ped. 162—Principles, Organization and Administration of Physical Education

The direction of intramural activities at the various grade levels and the administration of a community recreation program. 2 sem. hrs.

Ped. 361—Principles, Organization, Methods and Administration of Physical Education

The basic principles of the program of physical education with emphasis on organization, administration and methods. 3 sem. hrs.

PROFESSIONAL TECHNIQUES:

Ped. 160—Basketball

Basic skills of basketball 2 sem. hrs.

Ped. 161—Baseball (for Men)

Basic skills of baseball 2 sem. hrs.

Ped. 165—Team Sports (for Women)

Basic skills of team sports with emphasis on Volleyball, Softball, Speedball and Basketball. 3 sem. hrs.

Ped. 260—Football (for Men)

Basic skills of football 2 sem. hrs.

Ped. 261—Boxing and Track (for Men)

Basic skills of boxing and track 2 sem. hrs.

Ped. 262—Officiating (for Men)

Officiating techniques in football, basketball, baseball and track. 2 sem. hrs.

Ped. 263—First Aid

A professional course for teachers of health, safety and physical education with emphasis on practical First Aid and training methods. 1 sem. hr.

Ped. 265—Individual and Dual Sports (for Women)

Individual and dual sports including tennis, archery, badminton and tumbling. 2 sem. hrs.

Ped. 266—Officiating (for Women)

Officiating games and acquiring a national rating. 2 sem. hrs.

Ped. 268—Square Dancing

Principles and practice of square dancing. 2 sem. hrs.

Ped. 360—Football (for Men)

Advanced football, a continuation of Ped. 260. 2 sem. hrs.

Ped. 363—Basketball (for Men)

Advanced basketball, a continuation of Ped. 160. 3 sem. hrs.

Ped. 388—Camping Outdoor Recreation (for Women)

Practical experience in camping and outdoor recreation. 2 sem. hrs.

Ped. 389—Professional Techniques in Physical Education I

An elementary school program of Physical Education for grades I-IV. 2 sem. hrs.

Ped. 390—Professional Techniques in Physical Education II

An elementary school program of Physical Education for grades V-VIII. 2 sem. hrs.

Department of English

Gerald J. Eberle, Ph.D., *Chairman*

Course Offerings — 1963-1964

Fall: En. 101, 102, 201, 220, 306, 344, 355, 356, 375, 380.

Spring: En. 102, 202, 301, 315, 347, 352, 385, 398.

En. 101—Freshman Composition

Basic principles of effective writing; reading for full understanding; vocabulary extension. 3 sem. hrs.

En. 102—Freshman Composition

Introduction to literary readings and literary forms: fiction, drama, poetry. Introduction to research and the research paper. 3 sem. hrs.

En. 201—A Survey of English Poetry and Prose

Our literary heritage in English, from the beginnings to the Romantics. The course is required of all Sophomores. 3 sem. hrs.

En. 202—A Survey of English Poetry and Prose

From the Romantics to the present day. This course is required of all Sophomores. 3 sem. hrs.

En. 220—Creative Writing

An introduction to imaginative literature from the writer's point of view. The components of the literary arts will be analyzed in the works of successful writers of non-fictional prose, prose fiction, drama, and verse: the creative mood, language as the medium of art, music and rhythm, form and structure, and the various literary types. Two hours of classroom discussion and analysis, augmented by individual criticism of the student's literary work. 3 sem. hrs.

En. 301—History of English Language and Grammar

The origins of the English language. The development of the grammar, vocabulary, and phonetics of modern English. Recent developments in linguistics. This course is designed to acquaint prospective secondary school teachers of English with the most modern studies of English as language. 3 sem. hrs.

En. 303—Chaucer

Chaucer's principal works are read in the language of the poet. 3 sem. hrs.

En. 306—Shakespeare's Tragedies

The theory of tragedy, the development of drama; a study of "Hamlet," "Macbeth," "Othello," "Lear." 3 sem. hrs.

En. 307—Shakespeare's Comedies

The theory of comedy; the development of comedy with special reference to selected comedies. 3 sem. hrs.

En. 308—Shakespeare's Histories

A study of the history play as a literary form; analysis of Shakespeare's historical dramas as expressions of Tudor concepts of politics and history. 3 sem. hrs.

En. 314—Milton

A study of the background and work of the great Puritan poet. His principal prose and poetical works are thoroughly analyzed. 3 sem. hrs.

En. 315—Dryden

Honors reading course. Intensive readings in the poetry, drama, and criticism of Dryden and the intellectual and literary background of his day. Senior English majors with an average of 3.0 in their major field are eligible. 3 sem. hrs.

En. 319—Newman

Honors reading course. Readings in the intellectual milieu in which Newman lived and wrote; a study of "The Present Position of Catholics in England," "The Idea of a University," and the "Apologia Pro Vita Sua." Senior English majors with an average of 3.0 in their major field are eligible. 3 sem. hrs.

En. 328—Sixteenth Century Poetry and Prose

The English sonnet and the development of English lyric poetry; the development of English prose. 3 sem. hrs.

En. 329—Seventeenth Century Poetry and Prose

The prose and poetry of the period, exclusive of Milton, will be treated. Special emphasis on the School of Donne, the character writers, and the beginning of the neo-classic age. 3 sem. hrs.

En. 335—The Age of Pope

The important figures of the post-Restoration period; major emphasis given to the works of Pope, Swift, and Johnson. 3 sem. hrs.

En. 340—English Romantic Poets

A discussion of the age and its criticism of the art and thought of the poets of the period. Emphasis will be laid on the poetry of Coleridge, Wordsworth, Byron, Keats and Shelley. 3 sem. hrs.

En. 343—Victorian Poetry

The greater poets of the later nineteenth century; the causes leading to the development of the thought of each; the main tendencies of modern verse traced to these earlier writers. 3 sem. hrs.

En. 344—Victorian Prose

Honors reading course. Intensive readings in the chief prose masters of the Victorian Age exclusive of the novelists. Senior English majors with an average of 3.0 in their major field are eligible. 3 sem. hrs.

En. 347—Modern Poetry

The distinctive methods and aims of the major twentieth-century American and British poets—Yeats, Hopkins, Eliot, Auden, Frost—are studied in their most important works. In addition a survey is made of the minor poets of our time. 3 sem. hrs.

En. 350—World Literature from Homer to Joyce

A survey of the major writers of Western civilization from the beginnings in Greece to our own day. The major works of these authors, in translation, will be closely studied. 3 sem. hrs.

En. 351—Survey of Western Drama I

Historical review of the drama from the Greeks to mid-nineteenth century; the spirit and thought of each age as exemplified in the drama of the period; the development of dramatic tradition. 3 sem hrs.

En. 352—Survey of Western Drama II

Historical review of drama developments from early realistic movements to the experimental schools of the 1920s. Emphasis on Ibsen, Shaw, and O'Neill, with some attention to more recent figures. 3 sem. hrs.

En. 355—Elizabethan Drama Exclusive of Shakespeare

The major playwrights of the period will be considered, with attention to the beginning and development of English drama. 3 sem. hrs.

En. 356—Restoration and Eighteenth Century Drama

Honors reading course. Extensive readings in the plays of Dryden, Wycherley, Congreve, Goldsmith, Sheridan, and others. Senior English majors with an average of 3.0 in their major field are eligible. 3 sem. hrs.

En. 375—Literary Criticism

The major movements in contemporary literary criticism in their historical context. Special attention will be given to the application of critical theory to works of literature. This course is recommended for prospective teachers of English in the secondary schools. 3 sem. hrs.

En. 380—Introduction to Bibliography and Research Method

A course designed to introduce the student to the methods and principles of English scholarship. Typical exercises and practical training will be given in the bibliography of literary study. Required of English majors in their Junior year. 2 sem. hrs.

En. 385—British Novel

Honors reading course. Intensive readings in the British Novel from its origins to the end of the nineteenth century. 3 sem. hrs.

En. 389—Major American Writers of the Nineteenth Century

A thorough study of the principal works of the most important writers of the nineteenth century in America: Emerson, Thoreau, Melville, Hawthorne, Whitman, Twain, James. 3 sem. hrs.

En. 391—The Modern Novel

A study of some of the major twentieth century novelists of England and the United States, with attention to changes in theory and technique and to the influence of continental writers. 3 sem. hrs.

En. 398—Aesthetics

The nature of aesthetic experience. A study of contemporary critical and aesthetic theories in literature and the fine arts with special emphasis upon their practical application in contemporary poetry, painting, and sculpture. 3 sem. hrs.

Department of History and Political Science

Rev. Charles C. Chapman, S.J., Ph.D., *Chairman*

Course Offerings — 1963-1964

Fall: Hs. 101, 201, 301, 331, 341, 353, 375, 381

Spring: Hs. 102, 202, 302, 332, 354, 361, 376, 382

Hs. 101—Western Civilization (2000 B.C.-1500 A.D.)

The purpose of this course is to give an introductory view of history as a whole. In this semester, early civilizations are studied in their political, economic, social, and religious aspects, and their contributions to modern civilization evaluated. 3 sem. hrs.

Hs. 102—Western Civilization (1500 A.D. to Present)

In this semester, past movements are coordinated with present civilization by studying the present in the light of the past. Special emphasis is placed throughout on the unity and continuity of history. 3 sem. hrs.

Hs. 201—Survey of United States History I (1492-1865)

Discoveries and settlements; French and Indian wars; economic development; independence; the "Articles" and the "Constitution"; era of Jefferson; westward movements; the "American system"; the "reign" of Jackson; the Civil War. 3 sem. hrs.

Hs. 202—Survey of United States History II (1865 to Present)

Reconstruction; economic and social developments; imperialism; agriculture vs. industry; growth of monopolies and trusts; World War I; the New Deal; American interest in world affairs; World War II; toward Internationalism; the New Frontier. 3 sem. hrs.

Hs. 301—Ancient History I

The Ancient Near East: the civilizations of Mesopotamia and Egypt; the Hittites; the Hebrews. Greece: the Heroic Age; the rise of the polis; the colonies; the Persian crisis; Athens and Sparta; the cultural apogee; Macedonia; Alexander and the Hellenistic Age.

Hs. 302—Ancient History II

The foundation of Rome; the early legendary period; expansion in central Italy; the Etruscans; the Gauls. Conflict in Carthage: the Punic Wars; Expansion throughout the Mediterranean. Social crisis: the civil wars. Triumph and death of Caesar; the principate; the Empire to Marcus Aurelius; the collapse of the third century.

Hs. 307—History of Russia I

A survey of Russia from the beginnings to the 1905 Revolution; the emergence of Moscow; The Time of Troubles; The Romanov dynasty; reforms of Peter The Great; The era of Catherine and Alexander I; Reform and Autocracy in the 19th century. 3 sem. hrs.

Hs. 308—History of Russia II

From 1905 to the present, The Revolution of 1905 and 1917; The establishment of the Soviet Union; variations in foreign and domestic policy between the two World Wars; Post-war Soviet Imperialism. Theoretical aspects of Communism. 3 sem. hrs.

Hs. 311—Middle Ages (400 to 1200 A. D.)

The barbarian invasions; the decline and fall of the Roman Empire; the rise of Mohammedanism; attempts at European unity; conflicts of Church and State; the Crusaders; Eastern Civilizations. 3 sem. hrs.

Hs. 312—Renaissance and Reformation (1200 to 1600 A. D.)

The great transition period; from feudalism to nationalism; the Italian renaissance; Humanism; the Protestant Revolt and Catholic Reformation; Middle-Eastern developments; advance of Mohammedanism in Balkans, expulsion from Spain; Eastern Civilizations. 3 sem. hrs.

Hs. 321—Modern Europe I (1500-1763)

National monarchies; empires and city-states; commercial revolution; the Protestant revolt; Charles V and Philip II; religious wars in Europe; Catholic reformation; the Stuarts and the Parliament; Age of Louis XIV; British revolution; European wars. 3 sem. hrs.

Hs. 322—Modern Europe II (1763-1870)

French-Spanish-Dutch wars for colonial and commercial supremacy; decline of Spain; rise of Russia and Prussia; dismemberment of Poland; "benevolent despots"; "Old Regime" and the French Revolution; the Hanoverians; Napoleon; Congress of Vienna; reaction against liberalism; Holy Alliance; Metternich; Revolutions of 1848. Franco-Prussian war, 1870. 3 sem. hrs.

Hs. 331—Modern Europe III (1870-1914)

Policies of the Holy Alliance; Balkan revolution; political disturbances in France, Belgium; legitimists, republicans, and socialists; revolutions of 1848; Louis Napoleon; Crimean War; unification of Italy; Franco-Prussian War; the German empire; European powers in Africa and the Far East. 3 sem. hrs.

Hs. 332—Modern Europe IV (1914 to Present)

First World War and Aftermath; the Weimer Republic; Adolf Hitler; The Third Reich; World War II; The United Nations; The International Bill of Rights; Germany and France after World War II; Russia; England; Italy; The Inner Six and The Outer Seven. 3 sem. hrs.

Hs. 341—Contemporary World History

The Western nations in the aftermath of World War II; the Communist States in the aftermath of the War; the March towards Independence in Asia and Africa—India, China, Japan, Southeast Asia, the Near and Middle East, Global Resources, Defense and Social Justice. 3 sem. hrs.

Hs. 351—Latin American History (1492-1820)

The Latin American civilization of South America, Central America, Mexico and the Caribbean area; discovery, conquest, exploration and colonization; influence of European civilization and the Church; development of Latin American economy and culture; struggle for independence of Mexico, South America and Brazil. 3 sem. hrs.

Hs. 352—Latin American History (1820 to Present)

Foundation and development of Mexico, Venezuela, Colombia, Ecuador, Peru, Bolivia, Chili, Argentina, Uruguay, Paraguay, Brazil and the smaller nations of Middle America; Latin America and the United States; Inter-American relations. 3 sem. hrs.

Hs. 353—Latin American History—Central America and the Caribbean Region (pre-Columbian—1820)

An area study of the middle American region: Caribbean islands including Haiti, Cuba, Puerto Rico and Jamaica; countries of Central America: Panama, Costa Rica, Nicaragua, El Salvador, Honduras and Guatemala; Venezuela and Mexico, including political, administrative, economic, social and cultural development from pre-Columbian civilization to 1820. 3 sem. hrs.

Hs. 354—Latin American History—Central America and the Caribbean Region (1820 to Present)

Foundation and development of Panama, Costa Rica, Nicaragua, El Salvador, Honduras, Guatemala, Venezuela and Cuba: Development of Haiti, the Dominican Republic, Islands of the British West Indies and lesser islands and areas of the Caribbean. 3 sem. hrs.

Hs. 361—Louisiana History

The early settlers and the French regime; the Spanish regime; the Louisiana Purchase; the State before, during, and after the Civil War; Modern Louisiana. 3 sem. hrs.

Hs. 365—The Revolutionary Era, 1763-1789

An analysis of the British colonial system following the Peace of Paris, with emphasis upon economic, political, and cultural backgrounds of the American Revolution. The significance of the Revolution in forming American political ideas and traditions will also be stressed. 3 sem. hrs.

Hs. 366—The Founding of the Republic, 1789-1815

An examination of the nature of the Constitution and the historical forces which gave it shape. Major attention will be given to the continuity of political growth and cultural patterns during the early national period, as well as to the development of the dominant theories of Hamiltonian Federalism and Jeffersonian Democracy. 3 sem. hrs.

Hs. 375—The Age of Jackson, 1815-1845

A study of the emerging conflict of nationalism and sectionalism in American life, with emphasis on economic and political forces affecting the expansion of the American democratic process. The conflicting theories of Jacksonian Democracy, Manifest Destiny, and the Mexican War will be surveyed. 3 sem. hrs.

Hs. 376—Civil War and Reconstruction, 1845-1877

A detailed examination of the forces leading to sectional conflict in

1861 and to the eventual re-establishment of the Union, with special emphasis upon the place of the Civil War in American historiography and upon the heritage of the Reconstruction period.

3 sem. hrs.

Hs. 377—The Rise of Modern America, 1877-1918

An analysis of the emergence of the United States as a great industrial nation and as a major power in international affairs. Particular attention will be given to the development of the conservative and liberal ideologies and to the Progressive Movement as the backdrop for domestic reform and American participation in World War I.

3 sem. hrs.

Hs. 378—The U. S. Since World War I, 1918 to Present

A study in the evolution of the United States from isolationism to involvement in World War II, and of her response to the political and economic ideologies of a world between two wars. The New Deal; the Fair Deal, and the New Frontier.

3 sem. hrs.

Hs. 399—Historical Theory and Bibliography

A course designed for history majors, exploring the various answers which have been given to the problem of the meaning and validity of the historical process. The contributions to historical thought by the great historians will also be surveyed.

3 sem. hrs.

Hs. 381—History of England I, 600-1600

Roman Britain. Nordic invasions. Saxon England. Norman Conquest and the making of the nation. Plantagenets, Crusades, and The Hundred Years' War. Early Parliamentary development. Aristocratic anarchy, wars of the Roses. Strong Tudor monarchy. The break from Catholicism. Beginnings of overseas expansion, conflict with Spain.

3 sem. hrs.

Hs. 382—History of England II, 1600 to Present

The Stuart Era, struggle between Crown and Parliament. The Protectorate. Stuart Restoration. Parliamentary Supremacy and the eighteenth-century oligarchy. Loss of American colonies. Struggle with Napoleon. Industrial Revolution. Victorian Liberalism and Reform. The New Imperialism. World Wars I and II. Labor Party. From Empire to Commonwealth. In both semesters special attention is given to English literature as it complements political and social history.

3 sem. hrs.

POLITICAL SCIENCE

Course Offerings — 1963-1964

Fall: Psc. 101, 201, 305, 311, 347

Spring: Psc. 102, 202, 306, 312, 348

Psc. 101—American Government I

Structure, development, powers, and limits of the federal government; underlying principles and relationships of executive, legislative, and judicial departments; organization, functions, and powers of various branches and bureaus of government; revenues, expenditures, and debts; federal regulation and control.

3 sem. hrs.

Psc. 102—American Government II

State and local governments in the United States; structure and composition; powers and limitations of the lesser governmental units; workings of the state executive, legislative, and judicial branches; state administration and finance; changing relations between the nation and the states; types of municipal organization; county, parish, township, villages, and special districts. 3 sem. hrs.

Psc. 201—European and Comparative Government I

GREAT BRITAIN: the origin of the British Constitution; the Crown; Parliament; the Legal System; local government; problems of Empire and Commonwealth. FRANCE: The heritage of the Revolution; the Third Republic, its constitutional structure and failure; the Fourth Republic, its weaknesses and prospects; British and French Parliamentary Systems compared. 3 sem. hrs.

Psc. 202—European and Comparative Government II

GERMANY: historical backgrounds; the Hohenzollern Empire (1871-1918); the Weimar Republic (1918-1933); National Socialism (1933-1945); Allied Occupation and control; rebirth of German political life. SOVIET UNION: historical background and communist revolution; Lenin and consolidation; Stalin in power; the Soviet government in theory and practice; communist system and the world. Comparative governments; democracy vs. dictatorship; constitutions; separation of powers; legislatures and political parties. 3 sem. hrs.

Psc. 301—Constitutional Development I

The Constitution in Embryo; the Constitutional Convention and Ratification; the Constitution in Operation; Growth of Judicial Power under John Marshall; the Eve of the Civil War; Reconstruction, the Fourteenth Amendment; Legal-Tender Cases; Business Affected with a Public Interest; Interstate Commerce. 3 sem. hrs.

Psc. 302—Constitutional Development II

The Sherman Anti-Trust Act (1890) the Income Tax on Trial; the Constitution and the Flag; Labor Cases; Railroad Regulation; Supreme Court Personnel; Wilson's "New Freedom"; Amendments; Civil Liberties and Due Process; Judicial Limits of Regulatory Power; the Supreme Court in Transition 1935-37; Attempts at Judicial Reform; Control of Industry; World War II; Judicial Trends. 3 sem. hrs.

Psc. 305-306—Political Parties and Pressure Groups

The party system, theory and practice on national, state, and local level. Party organization. Nominations. Conventions. Campaign techniques. Elections. Voting Behavior. The principal pressure groups. Methods used to mobilize public opinion. Influence of pressure groups on various branches of government. Influence of parties and pressure groups on public administration and bureaucracy. 6 sem. hrs.

Psc. 308—History and Philosophy of Soviet Communism

From 1905 to the present, The Revolution of 1905 and 1917; The establishment of the Soviet Union; variations in foreign and domestic policy between the two World Wars; Post-war Soviet Imperialism. Theoretical aspects of Communism. 3 sem. hrs.

Psc. 311—International Relations

A comprehensive, systematic study of the fundamental principles that govern international politics. Significant concepts that are dealt with include: international law and its natural-law basis; elements of power and the dynamics of international relations, techniques of foreign policy; revolution and the cold war, international economics, collective security. 3 sem. hrs.

Psc. 312—International Relations

Examination of some of the more basic international issues,—political, economic and psychological—, of the contemporary world. Emphasis on the sources of U. S. conduct, Soviet conflict management, problems of imperialism and colonialism. The quest for peace, the unity of the West, the West and the world. Discussion of current international events. 3 sem. hrs.

Psc. 313-314—Political Theory

A survey of political thought from ancient times to the present with special emphasis upon an analysis of the past that can contribute to an understanding of the present. 6 sem. hrs.

Psc. 347—Business and Government

A study of the economic role of the state in relation to business, labor, and agriculture. Also considers pressure groups, monopolies, and questions of state regulation and ownership. The emphasis is on the present state of public law and the historical background of the government's increasing role in the economy. 3 sem. hrs.

Psc. 348—Conservatism

A more theoretical study of the private enterprise philosophy and its political implications with special emphasis on the outstanding conservative thinkers from Edmund Burke and Alexander Hamilton to Peter Drucker and Friedrich Hayek. Some consideration is given to the relation between the new conservatives and the various anti-Communist movements. 3 sem. hrs.

Department of Journalism

Edwin P. Fricke, Ph.B., *Chairman*

Course Offerings — 1963-1964

Fall: Jr. 201, 203, 206, 221, 306, 333, 340, 342

Spring: Jr. 202, 204, 207, 222, 307, 334, 341, 342

Jr. 201—News Writing

Elements of news; the lead, style and structure of news stories; new sources; intensive practice in writing leads and the simpler types of stories. Writing done during the laboratory periods is checked and corrected and each student is offered the opportunity for personal conference with the instructor several times during the semester.

2 sem. hrs.

Jr. 202—News Reporting

A continuation of Jr. 201. Emphasis is on developing news judgment and craftsmanship along with skill in the reporting and writing of more complex types of news stories. By lecture and round table discussion, the student is taught how to understand the various types of news events, how to cover them, and how to write the story.

2 sem. hrs.

Jr. 203-204—News Editing

Lectures and intensive practice in copy reading for errors of fact, of English, and of newspaper style; headline writing; news values and policy; libel; page layouts and makeup; reader interest. Students work on the copy desk of The Loyola Maroon. Required of all who take Journalism as a field of concentration. Prerequisite: Jr. 201-202.

6 sem. hrs.

Jr. 206-207—Photography

Practical use of the camera with emphasis on the standard press-type camera. Theory and practice of daylight and flash exposures; developing and printing of pictures; fundamentals of composition and lighting. Editing of pictures for news and feature articles.

2 sem. hrs.

Jr. 221-222—Supervised Publication Work

Staff work on The Loyola Maroon with emphasis on writing simple news stories; covering of assigned beats. Required of all journalism students in freshmen and sophomore years.

2 sem. hrs.

Jr. 242-243—Introduction to Journalism

A course in communications as a whole, with reference to the role of newspapers, public relations, advertising, radio, television and printing in the field.

4 sem. hrs.

Jr. 301-302—Newsroom Procedure

A course in the advanced techniques of newspaper makeup, editing and typography. Also techniques of the magazine, or company publications, brochures and other printed material. Practical work on the Maroon.

4 sem. hrs.

Jr. 306—Modern Feature Writing

Analysis of semi-news copy. The field for feature articles; study of newspaper feature articles for daily feature pages, Sunday magazine supplements, and special departments; magazine articles; structure and style; practice in writing features. 3 sem. hrs.

Jr. 307—Interpretative Reporting

Current news problems in the international, national and local fields; types of interpretative journalism such as the editorial, the news review, the background column, the by-lined article. 3 sem. hrs.

Jr. 315-316—Advanced Newspaper Reporting

Instruction and practice in reporting local, state and federal courts; municipal, parish and federal administrations; politics; finance; religion and labor. Emphasis on stories of background and research. 6 sem. hrs.

Jr. 333-334—Supervised Publication Work

Staff duty on The Maroon, the Wolf yearbook and other campus publications. Practical work at the printers. Conferences with the instructor. Open only to juniors and seniors. Required of all students majoring or minoring in journalism. 4 sem. hrs.

Jr. 340—History of American Journalism

Changes and developments in American newspaper work from colonial times through the re-construction period, projecting the newspaper as an institution against the background of the economic, social, and political history of the nation. Lectures, discussions, outside readings. Emphasis upon original research for term papers written by the students. 2 sem. hrs.

Jr. 341—Press and World Affairs

Political, economic, and ethical elements in the world press. Emphasis is placed on the comparison between the press in Europe and the press in the United States, considering pre-World War II conditions as well as changes and developments since World War II. The press as a factor in international affairs. A study of foreign news, the methods by which it is obtained by correspondents in various countries, and the factors affecting news from abroad. 2 sem. hrs.

Jr. 342—Sports Writing

How to write for the sports pages, including the lead, body and end of the sports story. The a. m. and p. m. sports story. The advance story. How to handle the running story. How to cover athletic events. Elective course. 2 sem. hrs.

PUBLIC RELATIONS

Course Offerings — 1963-1964

Fall: Pr. 244, 308

Spring: Pr. 245, 309

Pr. 244-245—Survey of Public Relations

Survey of current practices and problems in the field of public relations, with emphasis on various public relations functions, communication and publicity techniques, and analysis of relationships with various publics, such as press representatives, community groups, employees, stockholders, consumers and the like. 4 sem. hrs.

Pr. 308—Principles of Promotion

The role of promotion in the public relations campaign. The principles of sound promotion. Writing the news release and writing for radio and television. Practical and theoretical work in the field.

3 sem. hrs.

Pr. 309—Advertising

Survey of advertising in present-day society with reference to the organization and management of advertising, its relationship to the marketing process. Fundamentals of promotion and merchandising. Advertising copy and layout. Production. Media selection and research. Legal and social aspects.

3 sem. hrs.

Pr. 317-318—Public Relations and Advertising Workshop

Practical work in public relations and advertising. Class discussions each week devoted to whatever practical work is done in the field. Seminars held.

4 sem. hrs.

Pr. 319-320—Principles of Typography, Printing and Layout

Techniques of the layout as applied to books, publications, special and direct advertising, and small forms of printing. Analysis of copy. Illustrative techniques with arrangement of type matter as to legibility, emphasis, harmony and contrast.

4 sem. hrs.

Department of Classical and Modern Foreign Languages

Rev. Emmett M. Bienvenu, S.J., A.B., *Chairman*

Students who present two or more high school units in Classical or Modern Foreign Languages are advised to take the Achievement Tests of the CEEB. On the basis of these tests, they are assigned to those language courses most suited to their needs and achievements.

CLASSICAL LANGUAGES

A minimum of two years of college Latin and two years of college Greek (or Sociology) is required of all candidates for the degree of Bachelor of Arts.

Exercises in composition, prose or verse, accompany the study of Latin and Greek authors in all courses.

MAJORS IN CLASSICS. Greek language majors must fulfill their Minor requirements by earning twelve semester hours (upper division) in Latin. Latin language majors may fulfill their Minor requirements by earning twelve semester hours (upper division) in one of these fields; in Greek or a modern foreign language, in Eng-

lish, in history and political science, or in philosophy. Minor requirements may also be fulfilled by dividing equally the upper division courses between two of the fields mentioned above.

COMPREHENSIVE EXAMINATIONS, both oral and written, are required of all Greek and Latin majors.

Course Offerings (lower division): Latin courses numbered 101-2, 103-4, and Greek courses numbered 101-2 are offered in the Fall and Spring semesters respectively of each scholastic year.

LATIN

Course Offerings (Upper Division) — 1963-1964

Fall: Lt. 303, 313

Spring: Lt. 304, 314, 321

Lt. 101-2—Basic and Intermediate

A course intended to give the essentials of grammar. It is open to all students who wish to begin the study of the classic languages in college. The semester hours will be credited toward the completion of the total hours required for graduation. Five periods a week. Credit is dependent on the completion of Lt. 102. 6 sem. hrs.

Lt. 103—Latin Poets I

Designed for students with a background of two years of high school Latin, the course combines rapid grammar and syntax review with readings from the Fables of Phaedrus, the lyrics of Catullus, the Metamorphoses of Ovid. 3 sem. hrs.

Lt. 104—Latin Poets II

Selections from Virgil's Aeneid, Horace's Ars Poetica, Epistles and Satires. 3 sem. hrs.

Lt. 301—Historians of the Silver Age

Selections from Livy. 3 sem. hrs.

Lt. 302—Authors of the Silver Age

Selection from Pliny. 3 sem. hrs.

Lt. 303—Agricola of Tacitus

3 sem. hrs.

Lt. 304—Satires of Juvenal

3 sem. hrs.

Lt. 305—Plays of Plautus

Terence's Phormio. 3 sem. hrs.

Lt. 306—Selections from Pliny The Elder Quintilian.

3 sem. hrs.

Lt. 307—Ecclesiastical Writers

Selections from Tertullian and Lactantius. 3 sem. hrs.

Lt. 309—St. Augustine

Selections from the City of God. 3 sem. hrs.

Lt. 310—St. Augustine

Selections from the Confessions. 3 sem. hrs.

Lt. 311—Ovid

Complete Metamorphoses. 3 sem. hrs.

Lt. 312—Virgil

Aeneid. Study of epic Latin poetry. 3 sem. hrs.

Lt. 313—Horace

Critical study of the major works of Horace. 3 sem. hrs.

Lt. 314—Virgil

Selections from the Eclogues and the Georgics. 3 sem. hrs.

Lt. 315—Special Research Problem for Latin majors only

3 sem hrs.

Lt. 317—Tusculan Disputations of Cicero

Selections. 3 sem. hrs.

Lt. 321—Lucretius

Selections from the De Rerum Natura 3 sem. hrs.

GREEK

Course Offerings (Upper Division) — 1963-1964

Fall: Gk. 203, 303

Spring: Gk. 304, 311

Gk. 101-102—Homer

A beginners' course in Homeric Greek. Essentials of grammar and syntax, practice in composition, conjoined with reading of passages from the Odyssey and the Iliad. Five periods a week. Credit is dependent upon the completion of Greek 102. 6 sem. hrs.

Gk. 103-104—Basic and Intermediate

A reading course in the gospels of St. John and St. Luke. Essentials of Grammar. Vocabulary. 6 sem. hrs.

Gk. 203—Herodotus

Selections from the History

3 sem. hrs.

Gk. 303—Thucydides

Selections.

3 sem. hrs.

Gk. 304—Aeschylus

Several of the plays

3 sem. hrs.

Gk. 311—Greek Lyric Poetry

Selections from Sappho, Alcaeus, Anacreon are all studied in the original text.

3 sem. hrs.

MODERN FOREIGN LANGUAGES

A minimum of two years of college modern foreign language study is required of all candidates for degrees in several of the major degree programs.

Students who present two high school units in the modern foreign language which they will continue to study in college follow, in their first year of college language study, the courses numbered (French, German, Spanish) 103-4; in their second year of college language study, the courses numbered (French, German, Spanish) 203-4.

Students in French, German, Spanish who do not present two high school units follow, in their first year of college language study, the courses numbered (French, German, Spanish) 101-2; in their second year of college language study, the courses numbered (French, German, and Spanish) 201-2.

Besides attendance at class lectures three times a week, two periods a week of laboratory practice are required of all modern foreign language students in their first and second years of college language study.

MODERN FOREIGN LANGUAGE MAJORS may fulfill their Minor requirements by earning twelve semester hours (upper division) in one of these fields: in (another) foreign languages (ancient or modern), in English, in history and political science, or in philosophy. Minor requirements may also be fulfilled by dividing equally the upper division courses between two of the fields mentioned above.

COMPREHENSIVE EXAMINATIONS, both written and oral, are required of all foreign language majors in their major field. In addition, majors in Education with a teaching field in foreign languages must give satisfactory evidence of oral and written proficiency in their chosen language before they will be recommended for Teacher Certification in those languages.

Course Offerings (lower division): All courses in French, German, Russian, and Spanish listed as First Year College and Second Year College are offered in the Fall and Spring semesters respectively of each scholarship year.

FRENCH

Course Offerings (Upper Division) — 1963-1964

Fall: Fr. 303, 305, 341

Spring: Fr. 304, 306, 327

Fr. 101-2—First Year College

The essentials of French. The course advances through graded reading and composition. For those who offer no language credits from high school. Three periods a week. Credit dependent upon completion of French 102.

6 sem. hrs.

Fr. 103-4—First Year College

Designed for students presenting two units of high school French. Rapid grammar review, intensive study of syntax, composition and reading selections. 6 sem. hrs.

Fr. 201-2—Second Year College

Designed for students who have successfully completed French 101-2. Review grammar, selected readings in French. Composition. Three periods a week. Credit dependent upon completion of French 202. 6 sem. hrs.

Fr. 203-204—Second Year College

Designed for students who have successfully completed French 103-104. Intensive composition and extensive reading of selected masterpieces from the whole field of French literature. 6 sem. hrs.

Fr. 301—Medieval and Sixteenth Century Literature

A study of the poetic theories, genres and representative authors. 3 sem. hrs.

Fr. 303-4—Advanced French Conversation and Composition

The course is intended primarily for French majors. Prerequisite: Fr. 202 or 204 and permission of instructors. 6 sem. hrs.

Fr. 305—French Classicism

A thorough interpretation of the Classical ideas in prose, poetry and drama. Prerequisites: Fr. 303-4 and permission of instructor. 3 sem. hrs.

Fr. 306—The French Classical Drama

A thorough study of the drama of Corneille, Racine and Moliere. 3 sem. hrs.

Fr. 327—Historical Survey of the Culture and Civilization of France

Designed for French language majors, this course presents, in historical perspective, the religious, social and political institutions of France and examines the dominant ideas and ideals which influenced their development. 3 sem. hrs.

Fr. 331—Age of Enlightenment

A literary and philosophical explanation of the ideas in the XVIII century. 3 sem. hrs.

Fr. 341—Nineteenth Century

A comprehensive study and interpretation of romanticism, realism, naturalism, parnassianism, and symbolism. 3 sem. hrs.

Fr. 351—Twentieth Century

A detailed study of the movements and ideas of French literature of the 20th century, with emphasis on the Catholic renaissance. 3 sem. hrs.

Fr. 361-2

A course designed to give intensive training in particular skills to students preparing for the degree of Bachelor of Science in Education with a concentration in French. 6 sem. hrs.

GERMAN

Course Offerings (Upper Division) — 1963-1964

Fall: Gr. 303, 305

Spring: Gr. 304, 306

Gr. 101-2—First Year College

The essentials of German. The course advances through graded reading and composition. Three periods a week. Credit dependent upon completion of German 102. 6 sem. hrs.

Gr. 103-104—First Year College

Designed for students presenting two units of high school German. Rapid grammar review and intensive study of syntax. Composition and reading selections. 6 sem. hrs.

Gr. 201—Second Year College

Review grammar, selected readings in German. Collateral readings and composition. 3 sem. hrs.

Gr. 202—Second Year College

Advanced grammar, syntax and composition. Selected readings of German authors. 3 sem. hrs.

Gr. 203-204—Second Year College

Designed for students who have successfully completed German 103-104. Intensive composition and extensive reading of selected masterpieces from the whole field of German literature. 6 sem. hrs.

Gr. 210—Scientific German

Designed to familiarize students with the complexities of scientific German; basic science vocabulary and intensive drill in the sentence structure of learned discourse. Major emphasis is placed upon readings in the field of chemistry, physics and biology. 3 sem. hrs.

Gr. 301-2—Advanced German

History of German culture and civilization. Fundamentals of German literature. Reading and writing assignments. 6 sem. hrs.

Gr. 303-4—Advanced German Conversation and Composition

The course is intended primarily for German majors. Prerequisite: Gr. 202 or 204 or 210 and permission of instructor. 6 sem hrs.

Gr. 305—A Survey of German Literature I

Representative selections and masterpieces of German literature from the Medieval period to 1750. 3 sem. hrs.

Gr. 306—A Survey of German Literature II

Representative selections and masterpieces of German literature from 1750 to the middle of the 20th century. 3 sem. hrs.

RUSSIAN

Course Offerings (Upper Division) — 1963-1964

Fall: Rs. 303

Spring: Rs. 304

Rs. 101-2—First Year College

The essentials of Russian. The course advances through graded readings and composition. Credit dependent upon completion of Russian 102. 6 sem. hrs.

Rs. 201-2—Second Year College

Review grammar, selected readings in Russian. Composition. 6 sem. hrs.
Fall and Spring.

Rs. 303-4—Advanced Russian Conversation and Composition

The course is intended primarily for Russian majors. Prerequisite: Rs. 201-2. 6 sem. hrs.

Rs. 305—A Survey of Russian Literature I 3 sem. hrs.

Rs. 306—A Survey of Russian Literature II 3 sem. hrs.

SPANISH

Course Offerings (Upper Division) — 1963-1964

Fall: Sp. 303, 305, 351

Spring: Sp. 304, 306, 322, or 301

Sp. 101-2—First Year College

The essentials of Spanish. The course advances through graded reading and composition. For those who offer no language credits from high school. Three periods a week. Credit dependent upon completion of Spanish 102. 6 sem. hrs.

Sp. 103-4—First Year College

Designed for students presenting two units of high school Spanish. Rapid grammar review, intensive study of syntax, composition and reading selections. 6 sem. hrs.

Sp. 201-2—Second Year College

Designed for students who have successfully completed Spanish 101-2. Review grammar, selected readings in Spanish. Collateral readings and composition. 6 sem. hrs.

Sp. 203-204—Second Year College

Designed for students who have successfully completed Spanish 103-104. Intensive composition and extensive reading of selective masterpieces from the whole field of Spanish literature. 6 sem. hrs.

Sp. 301—Medieval and Renaissance Literature

A comprehensive study of the beginnings of Spanish poetry and prose. 3 sem. hrs.

Sp. 303-4—Advanced Spanish Conversation and Composition

The course is intended primarily for Spanish majors. Prerequisite: Spanish 202 or 204 and permission of the instructor. 6 sem. hrs.

Sp. 305—A Survey of Spanish Literature I

Representative selections and masterpieces of Spanish literature to 1700. Prerequisites: Spanish 202 and permission of the instructor. 3 sem. hrs.

Sp. 306—A Survey of Spanish Literature II

Representative selections and masterpieces of Spanish literature from 1700 to the present day. Prerequisites: Spanish 202 and permission of the instructor. 3 sem. hrs.

Sp. 311—The Golden Age

A comprehensive interpretation of the poetry and drama. 3 sem. hrs.

Sp. 313—Cervantes

An introduction to Cervantes with emphasis on the intensive study of *Don Quixote*. 3 sem. hrs.

Sp. 322—International Trade

3 sem. hrs.

Sp. 325—The Literature of the Nineteenth Century I

A comprehensive study of the ideas and theories in poetry and drama to 1898. 3 sem. hrs.

Sp. 326—The Literature of the Nineteenth Century II

A detailed study of the novel and the short story from 1830 to 1898. 3 sem. hrs.

Sp. 327—Historical Survey of the Culture and Civilization of Spain

Designed for Spanish language majors, this course presents, in historical perspective, the religious, social and political institutions of Spain and examines the dominant ideas and ideals which influenced their development. 3 sem. hrs.

Sp. 341—Twentieth Century

A comprehensive interpretation of the poetry and drama. 3 sem. hrs.

Sp. 351—A Survey of Spanish-American Literature

From the period of discovery, exploration and colonization through the Modernista Movement. Collateral reading. 3 sem. hrs.

Sp. 361-2—

A course designed to give intensive training in particular skills to students preparing for the degree of Bachelor of Science in Education with a concentration in Spanish. 6 sem. hrs.

Department of Library Science

James W. Dyson, A.M., B.S. in L.S., *Chairman*

The content of these courses in school librarianship is designed to provide training essential to the operation of a modern school library. The program is planned to make it possible for teacher-librarians to satisfy the requirement of eighteen semester hours established by the Southern Association for teacher-librarians, and for the principals and teachers to study the relationship of the library to the school. The basic courses required to meet the eighteen semester hours are: Ls. 201, Ls. 202, Ls. 311, Ls. 312, Ls. 351 and Ls. 390.

Ls. 201—School Library Administration

A study of the administration and organization of school libraries; the use and development of school library service; the place of the library in the modern school; faculty-library and student-library relationships; the acquisition and care of library materials; practice in the method of processing library materials; practice in library service and procedures; the purchase of library supplies. 3 sem. hrs.

Ls. 202—Functions of the School Library

The selection and evaluation of basic reference materials essential in school libraries; methods of introducing the library and library materials to students; the principles of classification and cataloging; practice in the interpreting of materials through poster making, displays, bulletin boards. 3 sem. hrs.

Ls. 311—Selection of Books for Children

Study of the aids and standards for the selection of books for children; the reading interests of children and their relation to basic book selection; classic and current books are read and evaluated to develop ability in recognizing the literature that appeals to children; study of the types of illustrations in children's books. 3 sem. hrs.

Ls. 312—Selection of Books for Young People

Survey of literature particularly suited for the use of high school students; classic and contemporary books are read and evaluated; critical study of the reading interests of high school students and the aids and bibliographies available for book selection; relations of reading to the courses in the high school curriculum is studied. 3 sem. hrs.

Ls. 351—The Selection of Library Materials (Grades 1-12)

The selection of a balanced collection; investigation of the various types of binding, editions, format and publishers; the evaluation of the standard reference books such as encyclopedias, dictionaries, periodical indexes, biographical dictionaries, and reference tools in special subjects. 3 sem. hrs.

Ls. 371—Audio-visual Materials

The selection, source and the use of these aids; integrating the curriculum with present holdings; the purchase, housing and care of materials. 3 sem. hrs.

Ls. 390—School Library Observation and Practice

Organized to give experience and practice in the various phases of school librarianship; includes actual work with library tools, the mechanical preparation and repair of books, teaching the use of the library. 3 sem. hrs.

Department of Mathematics

Rev. John F. Keller, S.J., M.S., *Chairman*

A student may receive credit in only one of the courses: Mt. 121, or 125; in only one of Mt. 253 or 257; in only one of Mt. 253, 258 or 259; in only one of Mt. 254 or 260.

The following sequences of courses are to be noted: Mt. 257, 258 and 260; Mt. 125, 257, 259 and 260; and for Summer Sessions only Mt. 121, 253 and 254.

Course Offerings — 1963-1964

Fall: Mt. 111, 125, 257, 259, 260, 311, 343, 361, 363, 393

Spring: Mt. 112, 257, 258, 260, 321, 344, 350, 352, 362

Mt. 111-112—Fundamental College Mathematics

A course covering topics from Modern Algebra, the Calculus, and Analytic Geometry. Topics such as the following are discussed: theory of sets and subsets; vectors and matrices; stochastic processes; Markov chains; linear programming and the theory of games. Derivatives and integrals of polynomials, with applications; derivatives and integrals of exponential functions, logarithms, trigonometric functions, and general powers; elementary topics from analytic geometry. This course is taken by those freshmen who will take *no further courses in Mathematics*. 6 sem. hrs.

Mt. 121—Unified College Algebra and Trigonometry

This course in traditional College Algebra unified with the elements of Plane Trigonometry is designed to serve as a foundation, when necessary, for Mt. 253-254. 3 sem. hrs.

Mt. 125—Unified College Algebra and Trigonometry

A thorough course in College Algebra unified with the elements of Plane Trigonometry. This course is taken by those freshmen who will major in Mathematics or in the Physical Sciences. 5 sem. hrs.

Mt. 253-254—Analytic Geometry and Calculus I and II

A two semester course in the Calculus which combines the elements of Plane Analytic Geometry. 6 sem. hrs.

Mt. 257—Analytic Geometry and Calculus I

The first of three semesters of a very thorough course in Calculus combining the elements of Plane Analytic Geometry. This course is taken in the Fall by those freshmen who enter with exceptional secondary training in mathematics. It is taken in the Spring by those students who were allowed to take Mt. 125 in the Fall of their freshman year. 5 sem. hrs.

Mt. 258—Analytic Geometry and Calculus II

The second of three semesters of the thorough course in Calculus and Analytic Geometry for those students who took Mt. 257 in the Fall. 5 sem. hrs.

Mt. 259—Analytic Geometry and Calculus II

The second of three semesters of the thorough course in Calculus and Analytic Geometry for those students who took Mt. 257 in the Spring. 3 sem. hrs.

Mt. 260—Analytic Geometry and Calculus III

The third semester of the combined course for all students. This course is offered every semester. 3 sem. hrs.

Mt. 311-312—Introduction to Modern Algebra

A thorough course in Modern Algebra based on Birkhoff and MacLane's: *An Introduction to Modern Algebra*. 6 sem. hrs.

Mt. 321-322—Introduction to Linear Algebra and Matrices

Systems of Linear equations; Vector spaces; basic operations for matrices; determinants; bilinear and quadratic functions and forms; linear transformations on a vector space and canonical representations of a linear transformation. 6 sem. hrs.

Mt. 343-344—The Mathematical Theory of Probability

The nature of Probability theory; the sample space; combinatorial analysis; coin tossing and random walks; combined events; conditional probability; stochastic independence; the binomial distribution; hypergeometric distribution; Poisson distribution; normal approximations. Random variables; expectation; variance; covariance; correlation coefficient. Generating functions; branching processes; Markov chains; stochastic processes. 6 sem. hrs.

Mt. 347-348—Elementary Mathematical Statistics

Probability; Mathematical models; testing hypotheses; estimation; frequency distributions of one variable; sampling theory; correlation and regression; goodness of fit; statistical design in experiments; non-parametric methods. 6 sem. hrs.

Mt. 350—Numerical Analysis

Ordinary finite differences; divided differences; interpolation; sub-tabulation; series and integrals; numerical solution of differential equations; linear systems and matrices; solution of linear equations; difference equations; solution of partial differential equations by difference methods; control of errors. 3 sem. hrs.

Mt. 352—Ordinary Differential Equations

3 sem. hrs.

Mt. 361-362—Advanced Calculus

A thorough course in Advanced Calculus based on Kaplan's Advanced Calculus. 6 sem. hrs.

Mt. 363—Introduction to the Theory of Complex Variables

Complex numbers; analytic functions; the geometry of elementary functions; integrals; power series; residues and poles; conformal mapping; the Schwarz-Christoffel transformation. 3 sem. hrs.

Mt. 364—Introduction to the Theory of Functions of Real Variables

The real number system; functions, sequences, limits, continuity; differentiation; integration; infinite series of constants; power series, uniform convergence. 3 sem. hrs.

Mt. 370—Introductory Topology

Sets; closed sets and open sets in metric spaces; homeomorphism and continuous mappings; connection; separation theorems; simply connected domains; connectivity properties. 3 sem. hrs.

Mt. 393—Programming Mathematical Problems for Digital Computers

Input, output, and storage devices; binary, octal, hexadecimal and other number systems; coding and programming in machine language; flow charts; sequencing; loops and branches; automatic address modification; precision and scaling; subroutines; testing programs; optimum programming; automatic programming; compilers. 3 sem. hrs.

The following courses are especially designed for Teachers of Mathematics according to the Recommendations of the Mathematical Association of America for the Training of Mathematics Teachers. See detailed report of the Committee on the Undergraduate Program in Mathematics and its Panel on Teacher Training in American Mathematical Monthly, volume 67, 1960, pp. 982-991. Also see similar report in The Mathematics Teacher, volume LIII, number 8, 1960. These courses will generally be offered in In-Service Institutes during the school year, and occasionally during Summer Sessions.

Course Offerings — 1963-1964

Fall: Mt. 313, 333, 353, 413, 433

Spring: Mt. 314, 334, 354, 414, 434

Mt. 301—Foundations of Mathematics

The axiomatic method; theory of sets; infinite sets; countability and cardinality; well-ordered sets; ordinal numbers; mathematical logic; intuitionism; formalism; Hilbert's "proof theory"; Gödel's proof. 3 sem. hrs.

Mt. 313-314—Structure of Elementary Algebra

Historical background; classical algebra; transition to Modern Algebra; sets, sentences, logic; axioms for an ordered Field; the real number system; the Natural numbers; the Integers; the Rational numbers; the Completeness Axiom; variables; algebraic expressions; open sentences; functions. 6 sem. hrs.

Mt. 333-334—Intuitive Foundations of Geometry

A study of space, plane, and line as sets of points, considering separation properties and simple closed curves; the triangle, rectangle, circle, sphere, and other figures in the plane and space considered as sets of points with their properties developed intuitively; the concept of deduction and the beginning of deductive theory based on the properties that have been identified in the intuitive development; concepts of measurements in the plane and space, angle measurement, measurement of the circle, volumes of familiar solids; treatment of coordinate geometry through graphs of simple equations.

6 sem. hrs.

Mt. 353-354—Calculus and Analytic Geometry

The coordinate plane, functions, polar coordinates, the algebraic description of subsets of the plane—related to solutions of equations—and parametrically as the range of a function, change of coordinates, and conic sections. Functions of one variable, stress on basic ideas, with adequate attention to manipulative skills. Differentiation, integration, the rational, trigonometric, and exponential functions, as well as a brief treatment of series and some very elementary differential equations.

6 sem. hrs.

Mt. 413-414—Abstract Algebra

Algebraic structures, such as groups, rings, fields, etc. Rigorous proofs emphasizing the axiomatic treatment.

6 sem. hrs.

Mt. 423-424—Linear Algebra

Real, finite-dimensional cases. Concrete manipulation of vectors and matrices. Vector equations and inequalities, intuitive introduction to linear programming and games. Linear functions and transformation, including a thorough understanding of the solution of m equations in n unknowns.

6 sem. hrs.

Mt. 433-434—Geometry

Foundations of geometry (in the sense of Hilbert). Generalization of the idea of congruence to include rigid motions, that is, one-to-one correspondence preserving distances. A corresponding generalization of the ideas of similarity. Measure theory; familiar area and volume formulas as theorems; Cavalieri's Principle. Pure Analytic Geometry, in which points, lines, and so on are defined and treated in terms of a coordinate system, without the use of any synthetic postulates at all.

6 sem. hrs.

Mt. 443-444—Probability and Statistics

Probability theory from a set-theoretic point of view, and application of basic probability theory to problems of statistical inference.

6 sem. hrs.

Department of Medical Technology

John G. Arnold, Jr., Ph.D., Chairman

Course Offerings — 1963-1964

Fall: Md. 101, 201, 203, 301, 303, 305, 307, 390

Spring: Md. 102, 202, 204, 302, 304, 306, 308, 391

Summer Session: Md. 209

Md. 101—Introductory Medical Technology

A course designed to instruct the student in the ethics of the profession, the care and use of laboratory equipment and the principles and practice of Medical Technology. 1 sem. hr.

Md. 102—Hematology

This course is a thorough study of blood and blood forming tissues. It considers the histology, physiology and morphology of blood and those aspects which will throw light upon the disorders of blood. 2 sem. hrs.

Md. 104—Hematology Laboratory

This course will consist of extensive laboratory work in hematology. 2 sem. hrs.

Md. 201—Urinalysis

A study of the history, principles, and practice of urinalysis, pregnancy tests, kidney function tests, and liver function tests. 2 sem. hrs.

Md. 202—Clinical Parasitology and Gastric Analysis

This is a lecture course which includes the principles and practice of gastric analysis, fecal analysis and the parasites of the intestine and blood. 2 sem. hrs.

Md. 203—Urinalysis Laboratory

A complete laboratory course in the principles and practice of urinalysis, pregnancy tests, and kidney function tests, and liver function tests. 2 sem. hrs.

Md. 204—Clinical Parasitology and Gastric Analysis Laboratory

This course will consist of extensive laboratory work in gastric analysis, fecal analysis, and clinical parasitology. 2 sem. hrs.

Md. 209—Medical Technology Physiology

An intensive lecture and laboratory study of the relationship of Mammalian Physiology to Medical Technology. This course is restricted to Medical Technologists. Prerequisite: Bl. 101-102. This course is offered in the Summer Session only. 4 sem. hrs.

Md. 301—Clinical Medical Technology

This is a course designed to review the principles and techniques of the various phases of Medical Technology correlated with the work of the Pathologist. 2 sem. hrs.

Md. 302—Clinical Medical Technology

A continuation of Medical Technology 301. 2 sem. hrs.

Md. 303—Immunology and Serology

This course includes a discussion of the fundamental principles of immunology, the application of serological methods used in testing for immunological reactions and the study of blood banking techniques. 2 sem. hrs.

Md. 304—Pathogenic Bacteriology

The lectures and laboratories of this course are designed to acquaint the Medical Technology student with techniques, methods, differential media and reagents used to identify and report pathogenic bacteria clinically. Prerequisite Bl. 301, one year Chemistry. 4 sem. hrs.

Md. 305—Mammalian Histology

This lecture course is designed to acquaint the student with the essential structures and facts of the tissues and organs of the human body. Prerequisite Md. 101-102, Bl. 209 or equivalent. 2 sem. hrs.

Md. 306—Clinical Microtechnique

In this course are discussed the principles of differential and special stain techniques used in medical and research laboratories for gross or microscopic histological study. It includes such methods as the Papanicolaou's staining technique, celloidin method, freezing methods, etc. Prerequisite Md. 305. 2 sem. hrs.

Md. 307—Mammalian Histology Laboratory

This laboratory course presents stained tissues and organs for microscopic study to prepare the student for efficient work in the medical field. Prerequisite Md. 101-102. Bl. 209 or equivalent. 2 sem. hrs.

Md. 308—Clinical Microtechnique Laboratory

This course includes the application of the principles for the preparing of tissues and the staining techniques used as normal procedures of medical and research laboratories for museum and microscopic study. Also special procedures such as Papanicolaou's celloidin method, freezing methods, etc. Prerequisite Md. 305. 2 sem. hrs.

Md. 390-391—Hospital Technical Training

This is a hospital training course and includes practical application of principles of Medical Technology which have been covered in the preceding course in the department. This course is of one calendar year (twelve months) duration beginning at the end of the junior year. It is taught in various local hospitals which have been approved by the American Medical Association and the American Society of Clinical Pathologists. Practical laboratory technical experience is allowed for this course. 16 sem. hrs.

Department of Philosophy

Rev. Henry R. Montecino, S.J., A.M., S.T.L., *Chairman*

Course Offerings — 1963-1964

Fall: 201, 301, 302

Spring: Pl. 202, 203, 303

Pl. 101 (S. N.)—Psychology

This course treats of the nature of the human mind, will and memory, and their activities in normal and abnormal behavior. It aims to give the student a better insight into human behavior and a better understanding of herself or himself and her or his parents. It treats of mental conflicts, complexes and abnormal behavior as a preparation for subsequent courses in psychiatry. 3 sem. hrs.

Pl. 102 (S. N.)—Ethics

Definition, nature, object and necessity of norms of morality with special emphasis laid on nursing and medical ethics. 3 sem. hrs.

Pl. 201—Logic and Epistemology

Logic: An analysis of univocal, equivocal and analogous meanings and study of the laws for applying such meanings to things. A study of the proposition and laws governing inference.

Epistemology: An investigation of the problems of certitude and error; the sources and possibility of the latter; the conditions and ultimate criterion of the former. 3 sem. hrs.

Pl. 202—Metaphysics I

Achieving an explicit awareness of the most basic and all-pervasive datum of human experience, viz., the real is real only because it is, we discover how we come to know that which is. A study of the intrinsically analogical character of beings and our correspondingly analogical knowledge of them; the "structure" of the beings of our experience according to their actual and potential composition on three different levels and finally an explanation of the genesis of beings as be-ing. 3 sem. hrs.

Pl. 203—Metaphysics II

The approach to God through reason. A detailed analysis of the Five Ways of St. Thomas Aquinas, together with a discussion of the nature of God, His principal attributes, the problem of evil and the creation of the universe. Prerequisite: Pl. 202. 3 sem. hrs.

Pl. 211—Survey of Ancient Philosophy

An historical study of the main ideas of ancient philosophers from the Pre-Socratics to St. Augustine and the Christian era. Emphasis placed on Plato, Aristotle and Plotinus. 3 sem. hrs.

Pl. 212—Survey of Medieval Philosophy

An historical study of the main ideas of the Medieval period from St. Augustine to the Renaissance, with emphasis on the systems developed during the golden era of Scholasticism. 3 sem. hrs.

Pl. 301—The Philosophy of Human Nature

A philosophical study of life, especially the life of man. This course investigates the unity of man, his vegetative, sensory and rational activities. Stress is laid on the nature and origin of intellectual knowledge, the nature of volitional activity and the freedom of choice. The course culminates in demonstrating the spirituality, immortality and creation of the human soul. Prerequisite: Pl. 202. 3 sem. hrs.

Pl. 302—General Ethics

A philosophical study of the nature and general principles of moral conduct. God as the end of man, the norm of morality, conscience, the nature of rights and duties, positive and natural law. Prerequisite: Pl. 202, 301. 3 sem. hrs.

Pl. 303—Individual and Social Ethics

A study of the duties of the individual as an individual and as a member of society. Man's duties to God, to himself, to his neighbor; the origin and limitations of private property; society and its different kinds. Prerequisite: Pl. 302. 3 sem. hrs.

Pl. 304—Critics

A continuation and deeper penetration into the problems of the truth value of human knowledge. A critical examination of non-scholastic epistemological positions. Prerequisite: Pl. 202. 3 sem. hrs.

Pl. 305—The Philosophy of Inanimate Nature

The metaphysics of non-living being or material beings according to their intrinsic causal principles, to which is added a philosophy of science. Prerequisite: Pl. 202, 203. 3 sem. hrs.

Pl. 306—Non-Scholastic Philosophies of Human Nature

An historical and critical study of the nature of man as presented by non-scholastic systems throughout the history of philosophy. Prerequisites: Pl. 202, 301.

Pl. 307—The Philosophy of Law

A study of the nature and kinds of law as proposed by St. Thomas, embracing the eternal law of God, the natural law of reason and human positive law. Prerequisites: Pl. 202, 203. 3 sem. hrs.

Pl. 308—St. Thomas and God

An exposition and criticism of the first three books of the *Summa Contra Gentes*: the nature of God, God the origin of creatures; God the purpose of creatures. Emphasis is placed on the Exemplarism of St. Thomas and on his Platonic heritage. Prerequisites: Pl. 202, 203. 3 sem. hrs.

Pl. 311—Survey of Modern Philosophy

An historical study of the main ideas of the modern period from the Renaissance to Kant and Hegel. 3 sem. hrs.

Pl. 312—Current Philosophical Developments

An historical study of the main ideas of the more recent philosophers, with emphasis on current movements which have influenced the development of philosophy in the United States. 3 sem. hrs.

Pl. 313—Aesthetics

The nature of aesthetic experience. A study of contemporary critical and aesthetic theories in literature and the fine arts with special emphasis upon their practical application in contemporary poetry, painting and sculpture. 3 sem. hrs.

Pl. 314—Symbolic Logic

An introduction to the essentials of modern logic, including the basic notions of a propositional calculus and of a functional calculus. The practical utility of symbolic logic is stressed as well as theory.

3 sem. hrs.

Pl. 315—Special Problems in Philosophy

Matter to be arranged.

3 sem. hrs.

Department of Psychology

John J. Pauson, Ph.D., *Chairman*

The department offers only the B.S. degree. Requirements include 20 hours of natural science and two years of either French or German. Those seeking either a major or a minor in psychology must take: Psy. 102, 105, 334, 336. Minor students require an additional six hours of upper division work. Majors in psychology must have an additional 21 hours including Psy. 103, 310, 350, either 303 or 305, and 308 or 309.

Course Offerings — 1963-1964

Fall: Psy. 102, 105, 230, 303, 308, 310, 333, 336, 398

Spring: Psy. 102, 103, 302, 305, 309, 320, 334, 350, 380, 399

Psy. 102—Introductory Psychology

General introduction to the field of psychology.

3 sem. hrs.

Psy. 103—Experimental Methods

A detailed treatment of the application of the scientific method in psychology. Basic assumptions, limitations, and advantages of the experimental method. For prospective major students. Two lectures, one lab.

3 sem. hrs.

Psy. 105—Elementary Statistics

Introduction to the use of statistics in psychology; central tendency, variability, correlation, etc.

3 sem. hrs.

Psy. 230—Child Psychology

Normal child development. Understanding and interpreting behavior of the child. (Identical with Ed. 230)

3 sem. hrs.

Psy. 302—Adolescent Psychology

Study of the processes of growth and development in adolescence. (Identical with Ed. 302)

3 sem. hrs.

Psy. 303—Advanced Experimental Psychology

Experimental design. Three lectures, one lab. Prerequisites: Psy. 102 and 105.

3 sem. hrs.

Psy. 305—Advanced Statistics

Foundations of statistical inference. Prerequisites: Psy. 102 and 105. 3 sem. hrs.

Psy. 308—Learning (Theory)

Contemporary theories and experiments in the field of learning. Prerequisite: Psy. 102. 3 sem. hrs.

Psy. 309—Motivation

Critical analysis of experimental and clinical findings on motivation, with particular emphasis on basic concepts and theories. Prerequisite: Psy. 102. 3 sem. hrs.

Psy. 310—Personality

Psychology of personality. Survey of current theories of personality. Prerequisite: Psy. 102. 3 sem. hrs.

Psy. 312—Social Psychology

Psychological nature of society and social interaction; individual and group relationships; factors influencing group behavior. 3 sem. hrs.

Psy. 320—Psychological Measurement

Theory of measurement; types of scales; test construction; reliability and validity. Prerequisites: Psy. 102, 105. 3 sem. hrs.

Psy. 330—Genetic Psychology

An introduction to the study of mental processes: their evolution in the animal series, and growth and development in the human individual. 3 sem. hrs.

Psy. 333—Educational Psychology

Application of psychological principles to the educative process. 3 sem. hrs.

Psy. 334—History and Systems of Psychology

Emergence of psychology as an independent science from ancient philosophy and medicine to the present; functionalism, structuralism, behaviorism, physiological and psychoanalytic schools, Gestalt psychology, and existentialism. Prerequisite: Psy. 102. 3 sem. hrs.

Psy. 336—Abnormal Psychology

A description of classical psychopathology and current theories of etiology and therapy. Prerequisite: Psy. 102. 3 sem. hrs.

Psy. 350—Basic Psychological Tests

Principles and practice of basic psychological testing. Two lectures, two labs. Prerequisites: Psy. 102 and 105. 4 sem. hrs.

Psy. 380—Perception

The study of perception: nature of sensory data; prior experience as it influences perception; perception as a process and a product. Prerequisites: Psy. 102, Bl. 205-206 or equivalent. 3 sem. hrs.

Psy. 385—Industrial Psychology

The relationship between individual behavior and group achievement. Industrial conflict and harmony. 3 sem. hrs.

Psy. 398-399—Special Projects

0-4 sem. hrs.

Department of Physics

Rev. Francis A. Benedetto, S.J., Ph.D., *Chairman*

The degree programs, *B.S.—Physics* and *B.S.—Physics (Honors Program)*, have been designed to meet the challenge of an especially rapidly developing scientific age. Primary emphasis is placed on the preparation of students for advanced degree work in graduate schools of their choice. Recognizing that no fixed program could long survive the changing demands of the times, the American Association of Physics Teachers—an affiliate of the *American Institute of Physics*—has adhered to its long-standing policy of not formulating a standard accreditation program but, on the contrary, it is continually attempting to vitalize and modernize instruction in physics through frequent colloquia, and most recently through studies and recommendations of the *Commission on College Physics*. The department collaborates with the above groups, and its degree programs have been formulated to harmonize completely with their recommendations as well as with the recommendations of the *Committee on the Undergraduate Program in Mathematics*.

The standard humanities requirements of the College of Arts and Sciences—English, philosophy, history, and theology—are followed. In addition, a reading knowledge of German or Russian and an integrated program in mathematics is required of all candidates in the physics programs. Four years of mathematics, including one year of “abstract” mathematics is strongly recommended; minimum mathematics requirements include a sequence through Differential Equations plus one extra semester of upper division mathematics. Minimum physics requirements are 39 semester hours in physics, of which courses number Ph. 111-112, 221-222, 201, 305, 345, and 350 are mandatory.

For the *B.S.—Physics (Honors Program)* students must complete a minimum of 52 credits in physics, including the above-mentioned mandatory physics requirements plus three additional semesters of upper division mathematics beyond Differential Equations. A senior-level thesis based in independent study or undergraduate research and a quality quotient of 3.0 or better in physics and mathematics are required.

Course Offerings — 1963-1964

Fall: Ph. 100, 111, 140, 200, 201, 210, 221, 240, 300, 340, 345, 350, 356, 360, 370, 374, 380, 390, 399, 491

Spring: Ph. 100, 112, 141, 200, 203, 222, 241, 251, 300, 305, 341, 346, 351, 361, 371, 375, 381, 391, 399, 491

Ph. 100—Seminar

Weekly meetings, obligatory for all physics majors. Topics covered in these meetings include: reports by students on individual projects,

digests of published scientific literature, demonstrations of special equipment and techniques, reports on departmental activities.

No academic credits.

Ph. 200—Seminar

As above, sophomore year.

Ph. 300—Seminar

As above, junior year.

Ph. 399—Seminar

As above, senior year.

Ph. 103—Introductory Physics

A lecture-demonstration course designed specifically as an orientation course for those whose interests lie in the sphere of the humanities and to aid in their interpretation of their immediate physical environment. From time to time rigorous laboratory exercises are assigned. A knowledge of algebra is required.

4 sem. hrs.

Ph. 111-12—Physics I

The first part of an intensive course in general physics. It is intended for students whose major fields of concentration are chemistry, mathematics, or physics, as well as for pre-engineering students. The objectives of this course are a thorough grounding based on rigorous mathematical treatment in the fundamentals of mechanics, wave motion, sound, and heat. Three lectures, one laboratory, and one review session each week. Minimum prerequisite: Mt. 125-257 which may be taken concurrently.

10 sem. hrs.

Ph. 140-1—Special Projects

Spontaneous activities of the "Independent Study" type. These may be either experimental or theoretical. Experimental groups will be concerned with developing and constructing equipment suitable for demonstrations, teaching, or research. Theoretical groups will select fields of study within their interests and abilities and for which no formal lecture courses are currently available on campus. Projects are selected by the student and are subject to approval and supervision by staff. No prerequisite.

0 sem. hrs.

Ph. 201-3—General Physics

The principles of mechanics, heat, sound, light, magnetism, electricity, and fundamentals of atomic physics. In presenting these topics the special interests of the biological sciences and the general education groups are kept in view. Three lectures and one laboratory session each week. Prerequisite. Mt. 111-112.

8 sem. hrs.

Ph. 210—Optics

The fundamental principles of geometrical and physical optics, with an introduction to modern theories of radiation. One period per week will be dedicated to laboratory instruction. The experimental and theoretical approach is integrated, following essentially the methods of Jenkins and White (lectures) and Palmer (laboratory). Prerequisites: Ph. 111-112.

3 sem. hrs.

Ph. 221-2—Physics II

A continuation of Physics I, emphasizing electricity, magnetism, and

atomic physics. Three lectures, one laboratory, and one review session each week. Prerequisites: Ph. 111-12; Mt. 257-259.

10 sem. hrs.

Ph. 240-1—Special Projects

Prerequisite: Ph. 140-1.

2 sem. hrs.

Ph. 251—An Introduction to Radiation Science

A cooperative offering by the departments of Biological Sciences, Chemistry, and Physics, presenting a survey of the nature, measurement, and effect of ionizing radiations in chemical and biological systems. Designed to acquaint the beginner with theory and methods of use and radiation as a research tool. Geiger counter techniques will be used primarily; absorption and half-life experiments, tracer methods, biological uptake and distribution, chemical separations, isotope dilutions and similar topics will be covered in lectures and in the laboratory. Prerequisite: Discretion of professor in charge of the course. Physics section in Spring; Biology and Chemistry sections in Fall.

3 sem. hrs.

Ph. 305—Introductory Electromagnetics

Electromagnetics is presented from the field-theoretical viewpoint. Topics presented include Fields, Potentials, Dielectrics, Electromagnetics, Currents, Maxwell's Equations, and Waves. Calculus and some knowledge of vectors is presumed. Three lectures, one review session each week. Prerequisite: Ph. 221.

3 sem. hrs.

Ph. 340-1—Special Projects

Prerequisite: Ph. 240-1.

2 sem. hrs.

Ph. 345-6—Electronics and Radio Physics

The electron and its properties; thermionic and photo-electric emission; radio transmission and receiving circuits and apparatus. Solid state elements, ultrahigh-frequency and micro-wave techniques are included. Prerequisite: Ph. 221-2; Mt. 352.

10 sem. hrs.

Ph. 350-1—Theoretical Physics I

A unified lecture course covering the theoretical aspects of classical and modern physics. Topics especially emphasized in Theoretical Physics include mechanics, thermodynamics, kinetic theory, and statistical mechanics. Three lectures each week. Prerequisite: Ph. 221-2.

6 sem. hrs.

Ph. 355—Solid State Physics

Ph. 356—Low Temperature Physics

Ph. 357—Nuclear Physics

Senior level, single-semester courses with restricted enrollment, stressing theory in these modern disciplines. Extensive literature research is required of participants. Lecture presentations will stress:

- 1) Ph. 355: Statistics, classical and quantum; Energy levels, Metals; Semi-conductors. Electrical and Magnetic effects in solids.

- 2) Ph. 356: Production and control of low temperatures; Thermometry; Super-conductivity; Super-conducting magnets; Liquid Helium.
- 3) Ph. 357: Quantum mechanics; Nuclear energy levels; Nuclear theory; Particles; High energy devices; Detectors. Prerequisite: Ph. 350-1

Each course 3 sem. hrs.

Ph. 360-1—Theoretical Physics II

A continuation of the theoretical physics sequence stressing kinetics, statistical mechanics, quantum mechanics, and relativity. Three lectures each week. Prerequisite: Ph. 350-1. 6 sem. hrs.

Ph. 370-1—Advanced Physics Laboratory

An advanced lab with minimum supervision with the objectives of training students to be self-reliant and resourceful in planning and performing experiments not ordinarily performed at the elementary level. Research grade equipment is used and students may select their choice experiments from one or more of the following disciplines: mechanics, optics, thermodynamics, acoustics, atomic physics, solid state physics, spectroscopy, and electronics. Enrollment restricted to Physics majors who are seniors. Two laboratory sessions each week. 4 sem. hrs.

Ph. 374-5—Advanced Theoretical Study

Physics seniors who have demonstrated exceptional performance in Independent Study and who are developing marked proficiency in a selected field of theoretical physics may be allowed to concentrate in this specialty during their senior year by special arrangement. Program and credits must be determined in each individual case. Restricted registration. 4 to 8 sem. hrs.

Ph. 380-1—Special Projects

Prerequisite: Ph. 340-1.

2 sem. hrs.

Ph. 390-1—Special Laboratory and Shop Techniques

Selected topics in high vacuum work, glass-blowing, instrument shop, and photographic dark-room practices. Limited enrollment.

4 sem. hrs.

Special advanced offerings designed specifically for teachers of physics in high school will be presented in Institutes and other programs as demand and resources permit. These offerings will generally carry graduate credit and will be applicable toward the M.S. (Physics Teaching) degree. Applicants for such degree programs must fulfill the general requirements stated under The Graduate Division of Arts and Sciences in this bulletin.

Ph. 490—The PSSC Program

Lectures and laboratory sessions following materials developed by the Physical Sciences Study Committee. These materials include the PSSC Text, Laboratory Manual, Teachers Resource Book and Guide, Films. 6 sem. hrs.

Ph. 491—Foundations of Modern Physics

Historical and philosophical origin of present-day physical theories. Fields and forces. Modern energy-space-time concepts. Selected experiments from Modern and Atomic physics. 6 sem. hrs.

Ph. 492—General Physics

A review of the traditional divisions of basic physics with special emphasis on "workshop" participation and general discussion of problems arising in high school classrooms. Considerable time is devoted to analysis and solutions of physical problems. Special experiments and demonstrations by participants, according to field of interest. 6 sem. hrs.

Ph. 493—Classical Mechanics and Mathematical Methods

A theoretical course based fundamentally on the conservation theorems. Foundations of classical mechanics including statics, kinematics and dynamics of a rigid body, oscillatory and planetary motion, are treated. Also included are selected topics from thermodynamics and statistics. 6 sem. hrs.

Ph. 494—Elements of Electricity and Electronics

Theory, circuitry and measurements in electricity and electronics. AC and DC nets are considered, solid-state as well as thermionic devices will be treated. Measurements will include resistivity, currents, potentials, capacitance and inductance. Instrumentation will be adaptable to the high school inventory as far as practicable. Experiments will include oscillators, amplifiers, photo and control devices. 6 sem. hrs.

Ph. 495—Basic Optics and Wave Motion

Geometrical and physical optics using simplified equipment readily available. Fundamental principles rather than completed optical instruments will be emphasized. Primarily a laboratory course modeled after the Palmer manual. 3 sem. hrs.

Department of Sociology

Rev. Joseph H. Fichter, S.J., Ph.D., *Chairman*

Course Offerings — 1963-1964

Fall: Sl. 101, 205, 303, 312, 320, 326

Spring: Sl. 102, 108, 206, 306, 328, 331, 341

Sl. 101—Introductory Sociology

Orientation to social science with basic concepts of social structures and relations. 3 sem. hrs.

Sl. 102—Social Institutions

Study of behavior patterns, processes, institutions and culture. 3 sem. hrs.

Sl. 108—Fundamental Sociology

Introductory social science with empirical emphasis on social situations and problems encountered by the professional nurse. 3 sem. hrs.

Sl. 205—Social Problems I

Sociological analysis of demographic, economic and political problems. 3 sem. hrs.

Sl. 206—Social Problems II

Systematic study of social problems of youth, family and minority groups. 3 sem. hrs.

Sl. 301—Urban Sociology

The development of institutional adjustments to modern city life. 3 sem. hrs.

Sl. 303—The Family

Analysis of trends and processes in the Western family system. 3 sem. hrs.

Sl. 305—Introductory Social Service

Background and orientation to the field of professional social work. 3 sem. hrs.

Sl. 306—The Social Encyclicals

Theoretical approach to the reconstruction of society based on various Church documents. 3 sem. hrs.

Sl. 311—Group Conflict and Cooperation

Course in social psychology treating the major areas of group relations. 3 sem. hrs.

Sl. 312—Social Psychology

Development of personality through socialization; motivation and control of social behavior. 3 sem. hrs.

Sl. 313—Race Relations

Survey of scientific findings on the development of racial minorities in contemporary society. 3 sem. hrs.

Sl. 314—Sociology of Women

Function, role and status of women in the various social structures.
3 sem. hrs.

Sl. 318—Rural Sociology

Development of agricultural industry and rural communities.
3 sem. hrs.

Sl. 319—Crime and Juvenile Delinquency

Scientific approach to the causes, prevention and correction of criminality.
3 sem. hrs.

Sl. 320—Regional Sociology

Ecological approach to geographical regions and cultures, sub-regions and sub-cultures.
3 sem. hrs.

Sl. 322—Sociological Theory

Analysis of the works of sociological theorists from Comte to the present time.
3 sem. hrs.

Sl. 325—Social Statistics

Introduction to the use of statistics as a research instrument in social science.
3 sem. hrs.

Sl. 326—Methods of Social Research

Principles, objectives, planning techniques and interpretation in scientific social research.
3 sem. hrs.

Sl. 327—Sociology of Religion

Survey of empirical studies of the structure and functions of modern religious groups.
3 sem. hrs.

Sl. 328—Senior Seminar

Required for sociology majors, but open also to exceptional senior students in other fields with adequate sociological preparation.
3 sem. hrs.

Sl. 331—Cultural Anthropology

Origins and distribution of cultures with a survey of contemporary minor culture areas.
3 sem. hrs.

Sl. 341—American Society

Analysis of social structure and change in the American socio-cultural system.
3 sem. hrs.

Sl. 343—Sociology of Work

Study of the occupational system and of social relations in the urban, industrial system.
3 sem. hrs.

Sl. 349—Social Aspects of Mental Health

Survey of problems and programs in the sociological aspects of mental hygiene.
3 sem. hrs.

Department of Speech

Leo C. Zinser, Ph.B., LL.B., *Chairman*

Students majoring in Speech must take 12 semester hours in lower division courses and 18 semester hours in upper division courses to be selected from the following offerings. Speech may be taken as a major field by all students enrolled in the degree programs, Bachelor of Arts and Bachelor of Social Sciences. Education students using Speech as a Teaching Field must take Sh. 101-2, 201-2, 203-4; these courses will provide the minimum 18 semester hours and the proper subject matter required for certification in Speech. Selection of all courses must be made under the direction of the departmental advisers.

Course Offerings — 1963-1964

Fall: Sh. 101, 200, 201, 203, 301, 306, 308, 322

Spring: Sh. 102, 202, 204, 302, 307, 309, 310, 323, 324, 325

Sh. 101—Fundamentals of Speech

Study of elemental factors governing good speech content and speaking habits in address; expressive English, correct and distinct oral diction, vocal form, posture, platform manners; analysis of the relation between voice and personality; developing poise and freedom of bodily movement. 3 sem. hrs.

Sh. 102—Fundamentals of Speech II

Organization and development of ideas; style in the spoken word; the various types of public address: the symposium, the seminar, the oration, the colloquy. Formal and informal discussion. Prerequisite: Sh. 101. 3 sem. hrs.

Sh. 200—Introduction to the Theatre

A rapid survey intended to stimulate the cultured student's interest in the various approaches and methods of the art form of the Theatre. Prerequisite: En. 102 or permission of the instructor. 3 sem. hrs.

Sh. 201—Dramatic Interpretation

Fundamentals of acting, line interpretation, establishing mood, analyzing character; detail work in pantomime. 3 sem. hrs.

Sh. 202—Dramatic Interpretation

A practical course in the technique of acting; creating a role; mental and emotional phases of the art as well as the development of technical skill; practical application of these principles and skills; stage movement, voice and line reading. Prerequisite: Sh. 201. 3 sem. hrs.

Sh. 203—Public Speaking and Debate

The types of public address and the basic forms of support; audience analysis and motivation; introduction to the principles of logic persuasion as applied in group discussions and debates; functions of the chairman, participants, audience; parliamentary law; the forum and panel types of discussion. 3 sem. hrs.

Sh. 204—Public Speaking and Debate II

The "Oregon" and audience participation styles of debate. The panel debate. Prerequisite: Sh. 203. 3 sem. hrs.

*Sh. 301-302—Introduction to the Basic Principles of Speech**Correction*

Common vocal and aural disorders in the school-age child. Phonetics. Phonetic analysis of speech. 6 sem. hrs.

Sh. 303—Discussion and Debate Direction

A study of coaching procedures and of methods of preparing for contest debating; research in background and bibliography of past and current college and high school annual debate questions. A study of the organization and direction of forums, panels, symposiums, and other discussion methods with emphasis on those best suited for radio presentation. 3 sem. hrs.

Sh. 306—Oral Interpretation of Literature

A study of the techniques of oral presentation of prose, poetry, drama; practice in the delivery of selected types; exercise for the development of tone, melody, timing, and emphasis. 3 sem. hrs.

Sh. 307—Shakespearian Theatre

Studies the technical development of drama and theater from 1550 to 1642; study based on selected types and styles of plays and play-productions with special attention to the techniques of playwriting, stage and scenery design, acting and directing; emphasis on the work of Shakespeare and Jonson. 3 sem. hrs.

Sh. 308—Contemporary Theatre

Studies current influences and trends of play writing and play production for amateur and professional stage; artistic and technical development from 1900 to the present, including discussion of motion picture and television offerings and selected types and styles of plays. 3 sem. hrs.

Sh. 309—Play Direction

The principles of play direction; stage composition, movement, grouping, and business; control and development of tempo, rhythm, climax. 3 sem. hrs.

Sh. 310—Advanced Acting

A continuation of Sh. 202 for greater facility in the expression of character and emotional reaction through the study of a wide variety of roles. The presentation of an outstanding character interpretation will be required of each student. 3 sem. hrs.

Sh. 322—Stagecraft and Lighting

The physical theatre; introduction to technical problems of play production. Stagecraft and scenery construction for the proscenium and arena stages; lighting the proscenium and arena stages. Required for speech majors concentrating in theatre. 3 sem. hrs.

Sh. 323—Designing for the Theatre

Basic principles of stage design. Preparation and use of working drawings in the construction of the stage setting. Designing for the arena stage. Practicum design problems will be assigned to each student. Prerequisite: Sh. 322. 3 sem. hrs.

Sh. 324—History of Acting Styles

A study of changing methods and styles in acting from the Greeks to the modern day. Covers Grecian period, the Commedia del Arte, the Elizabethan, the Restoration and modern periods. Exercises in each period required. Prerequisite: Sh. 201-202. 3 sem. hrs.

Sh. 325—Techniques of Speech Pedagogy

A study of the various methods of teaching fundamentals of public speaking. Class direction by students required. Prerequisite: Sh. 101-2 or permission. 3 sem. hrs.

Department of Theology

Rev. H. James Yamauchi, S.J., S.T.D., *Chairman*

Course Offerings — 1963-1964

Fall: Th. 105, 210, 309, 311

Spring: Th. 106, 213, 310, 312

Th. 105—Four Gospels and Life of Christ

2 sem. hrs.

Th. 106—The Magisterium of the Church: Founding of Church; Teaching Authority of Church

2 sem. hrs.

Th. 209—Principles of Catholic Morality; the Church's Authority in teaching Sound Morality

2 sem. hrs.

Th. 210—Dogma I: Mysteries of Faith, Trinity, Original Sin, Incarnation and Redemption

2 sem. hrs.

Th. 213—The Church and the Sources of Revelation

2 sem. hrs.

Th. 309—Dogma II: Supernatural Life: Role of Holy Ghost; Actual and Sanctifying Grace, Supernatural Virtues

2 sem. hrs.

Th. 310—Dogma III: Sacramental Life, Supernatural Life as Channelled Through the Sacraments (Matrimony excluded)

2 sem. hrs.

Th. 311—Catholic Marriage: Dogmatic, moral, and canonical explanation of the Sacrament of Matrimony

2 sem. hrs.

Th. 312—Dogma IV: Eschatology. Final End of Man in Beatific Vision or Frustration of That End in Hell

2 sem. hrs.

Th. 314—The Christian Virtues and the Christian Life

2 sem. hrs.

Department of Communications

RADIO STATION WWL

The history of Radio Station WWL goes back to the early days of radio pioneering in this country. The University's radio station grew out of experiments in the laboratory of the Physics Department and presented its first broadcast from Marquette Hall on the university campus in 1922. It has grown and developed and extended the scope of its usefulness until at the present time it is one of the relatively few 50,000-watt clear channel broadcasting stations in the country. The WWL radio station operates as a department of the university in cooperation with the speech and English departments.

The university presents many and varied programs. The *Faculty Panel* presents timely subjects each week. *University Time*, a weekly program over the air, features radio plays and dramatizations composed, produced and directed by students of the University and personnel of the radio station. *Education Today* is a fifteen minute interview program featuring faculty members discussing their fields of study. *Majoring in Music*, a quarter hour recital program featuring students and faculty of the College of Music. *Loyola Presents*, a fifteen minute musical variety show presented by Loyola students featuring top talent from all departments of the University. Each day a religious program is presented over the air titled *Thought for a Day*.

Courses are offered in the field of radio including Radio Announcing, Radio Script Writing, Radio Acting and Directing and Radio Programming. These courses are given both on the University Campus and the downtown studio of WWL by members of the staff.

TELEVISION STATION WWL-TV

On September 7, 1957 the University opened its Television Studios. WWL-TV was assigned Channel 4 by the Federal Communications Commission. It is operated as a very high frequency channel of 100,000 watts. Like WWL-Radio the Television station is affiliated with the Columbia Broadcasting System.

The curriculum listed in our Programs of Study is designed for the student who wishes to specialize in training for television. WWL-TV affords the student the unique opportunity of learning within the operation of a commercial television plant. The physical plant of WWL-TV has been described as one of the best in the nation. The student will be working with professional broadcasters, in addition to his work at the University.

Tv. 101-102—Survey of Broadcasting

Survey of the structure, principles and practices of the broadcasting industry; an examination of the historical, legal and economic aspects of modern broadcasting. Extensive readings in fundamental theory and a study of current station and network practices. 6 sem. hrs.

Tv. 201-202—Television Studio Operation

A laboratory course in the operation of television equipment. It includes practice in the use of cameras, lights, microphones, sets and other studio facilities. 6 sem. hrs.

Tv. 203-204—Current Problems in Television

A course that examines current developments in the field. The national press and trade publications are used as texts and some experience is given in locating the sources of much needed and frequently used television information. 4 sem. hrs.

Tv. 301-302—Problems in Television Production Techniques

Practice in the production of television programs with the purpose of acquainting the student with various types of problems inherent in the media and giving him experience in the solving of these problems. 6 sem. hrs.

Tv. 303—Motion Picture Appreciation

A study of the history, art and production elements of the motion picture; historical and current motion pictures as material for discussion. 2 sem. hrs.

Tv. 304—Television Studio Management

This course examines the administration problems of studio operation. Experience is offered in schedule preparation, designing efficient methods for use of studio facilities, and development of long range station plans. 2 sem. hrs.

Tv. 305-306—Promotion and Advertising Techniques

A study of the principles and techniques involved in television audience promotion and television sales promotion. Emphasis on advertising on a local and national basis; television promotion writing and publicity procedures. 4 sem. hrs.

Tv. 307-308—Television News and Public Affairs

A study of television's role as a vehicle for news and the broadcast of events outside the television studios. Formats for news are examined with particular attention to depth and documentary programs related to public affairs. 4 sem. hrs.

Tv. 311—Salesmanship

A study of methods, procedures and practices used in the selling function of the marketing process. Emphasis is placed upon providing service to buyers and to professionalizing the field of selling. 3 sem. hrs.

Tv. 312—Sales Management

A study of the principles involved in the solution of major problems in the field of sales administration through the use of case problems. 3 sem. hrs.

Tv. 351—Principles of Advertising

Advertising and its relationship to business, its modern usage and its production are studied. Emphasis on various types of media, their uses and their limitations. 2 sem. hrs.

Tv. 353—Business Management Policies

A study of management policies, methods, techniques and procedures in modern business. Emphasis on top management problems. 3 sem. hrs.

Tv. 354—Personnel Management

A business management course in the procuring, developing, maintaining and utilizing the labor force, both in the plant and in the office. 3 sem. hrs.

Tv. 355—Review of Market Research

Analysis of television markets with respect to socio-economic factors as they relate to the many facets of television management. 3 sem. hrs.

Tv. 357—Mass Communication Analysis

Deals with an evaluating of the nature of broadcasting and its dimension in American society; how broadcasting achieves its social impact; the problems that stem from the social influence of broadcasting. 3 sem. hrs.

Tv. 358—Television Directing

A study, discussion and practice of the fundamental principles of TV directing; switching techniques, camera movement, pictorial composition, lenses, etc. 3 sem. hrs.

Tv. 361—Television Research Seminar

Analysis and criticism of contemporary research studies and original research in selected phases of television. 3 sem. hrs.

Tv. 362—Seminar in the Philosophy of Broadcasting

An examination of the basic problems facing industry and those who work with stations, agencies and networks. The course is a search for the fundamental truths of the broadcasting profession and constitutes a comprehensive overview of television as a profession. 3 sem. hrs.

Tv. 363—Seminar in Programming

An analysis of programming, philosophy and comparative studies of program schedules with rating services in selected areas of the United States. 3 sem. hrs.

The Graduate Division of Arts and Sciences

Biological Sciences

Rev. John H. Mullahy, S. J., Ph.D., *Chairman*

PURPOSE

The graduate program in the Biological Sciences is designed to provide a broad training for those who aspire to be teachers and for those who wish to improve their biological background by additional subject matter. The studies in this program provide an excellent preparation for advanced research and doctorate work. The program provides facilities for advanced courses in each of the three branches of the Department of Biological Sciences. At the present time the program leads to the Master of Science degree in Biological Sciences.

ADMISSION

Any student who has a Bachelor's degree from a recognized college and has undergraduate training in general biology, general bacteriology, and organic chemistry may qualify for the Master of Science degree in Biological Sciences.

Applications for admission must be filed with the Director of Admissions one month before the beginning of the session when the student plans to begin graduate work. The applicant for admission must write to the Registrar of each college previously attended and request an official transcript of all undergraduate and graduate work. The transcript must be sent directly by the college to the Director of Admissions, Loyola University, New Orleans 18, Louisiana. If the applicant for admission attended Loyola University as an undergraduate student, received his degree from Loyola University, and attended no other college or university after he received this degree no additional transcripts of work are required. Applicants who have not already taken the Graduate Record Examination are urged to do so and to have the results sent to the Director of Admissions.

The Application for Admission and the transcripts of previous work are reviewed by the Executive Committee of the De-

partment of Biological Sciences and the applicant is then notified of its action by the Director of Admissions.

For the first twelve hours of graduate work all students are accepted only on a provisional basis. Upon the satisfactory completion of this work (i.e. with a "B" average) the student becomes a classified graduate student. The Executive Committee of the Department of Biological Sciences has the final right to admit students to this category.

Candidates must demonstrate, by written examination if necessary, that they have a reading knowledge of at least one modern foreign language. In all cases the Executive Committee of the Department of Biological Sciences will determine this necessity.

Properly qualified candidates for the degree of Master of Education may elect a maximum of 10 semester hours of graduate work in the Biological Sciences as part of their degree requirements.

In rare instances the Executive Committee of the Department of Biological Sciences may accept up to six semester hours of graduate credit from other recognized institutions.

BIOLOGY FOR TEACHERS

Elementary and secondary school teachers who have completed one or more undergraduate courses in Biology may elect Bl. 432 and Bl. 433 for graduate credit.

RESIDENCE

Requirements are the same as those in the Graduate School of Education.

COURSE REQUIREMENTS

All students in the Division of Biological Sciences are obliged to take the Graduate Record Examination before the end of the *first semester* of graduate work if they have not already done so.

The Master of Science degree in Biological Sciences requires twenty-four hours of course work and a thesis. A total point-hour ratio of 3.00 is required for course work. This ratio is computed on the basis of four quality points for an "A", three quality points for a "B", and two quality points for a "C". No quality points are given for the mark of "F".

Along with the course requirements noted above, the candidate must present an acceptable thesis based at least partially on original research. This thesis must be completed and accepted by the Executive Committee of the Department one month before the date of graduation.

LIMIT OF TIME

Work completed more than six years before the date on which the Master's degree is to be conferred will not be accepted in fulfillment of requirements for the degree.

FEES

Fees for full-time students (8-12 hours) \$225.00; for part-time students, fees are the same as those for the College of Arts and Sciences as shown in the front part of this catalog.

COURSES FOR QUALIFIED SENIORS AND GRADUATE STUDENTS

Course Offerings — 1963-1964

Fall: Bl. 403, 409, 411, 415, 417, 420, 444, 501, 503, 507, 511, 515

Spring: Bl. 404, 406, 410, 416, 418, 426, 428, 430, 445, 502, 504, 506, 508, 512, 516

Bl. 403—Cytology

A study of the morphological, physiological, and biochemical properties of component parts of animal and plant cells. Prerequisite: General Biology. 4 sem. hrs.

Bl. 404—Phycology

A survey of the algae including both marine and freshwater forms. Prerequisite: General Botany. 4 sem. hrs.

Bl. 406—Taxonomy of Flowering Plants

History of botanical systematics along with collection, identification and preparation of herbarium specimens of angiosperms common in the New Orleans area. Prerequisite: General Botany. 4 sem. hrs.

Bl. 407—Limnology

A study of the physical, chemical, and biological factors determining biological productivity in inland waters. Field study of local lakes and streams gives the student experience in the use of methods and instruments for environmental analysis. Two lectures and six hours of laboratory or field work per week. Prerequisite: General Biology. 4 sem. hrs.

Bl. 409—Animal Ecology

The relationships of animals to each other, to plants, and to the physical and chemical factors of the environment. Two lectures and six hours of laboratory or field work per week. Prerequisite: General Biology. 4 sem. hrs.

Bl. 410—Field Zoology

The taxonomy, life histories and general ecological relationships of the common animals (exclusive of the terrestrial insects, the birds, and the mammals) of South Louisiana and the New Orleans area particularly. Two hours lecture and six hours laboratory or field work per week. Prerequisite: General Biology. 4 sem. hrs.

Bl. 411—General Parasitology

A study of parasites in relation to disease. The various types of parasites, their life histories, and the conditions which they cause will be considered. Prerequisite: General Biology. 4 sem. hrs.

Bl. 412—Physiology of the Bacteria

Lectures, assigned reading and discussion dealing with the chemistry and physiology of microbial cells. Prerequisite: Bl. 301 and biochemistry. 4 sem. hrs.

Bl. 415-16—Advanced General Physiology

The physiology and biochemistry of cells and the comparative physiology of muscular, nervous and circulatory systems. Bio-electric activities, metabolic cycles, and internal secretions will be covered. Prerequisite: Bl. 303. 8 sem. hrs.

Bl. 417—Endocrinology

General consideration of the organs of internal secretion. Phylogeny, embryology, microscopic anatomy and physiology. 4 sem. hrs.

Bl. 418—Advanced Endocrinology

Recent advances in the biology of the organs of internal secretion. Lectures, conferences and laboratory work. 4 sem. hrs.

Bl. 420—Plant Anatomy

A consideration of the structure and development of seed plants (Primarily Angiosperms). Reference will be made to the relationships of anatomy and developmental patterns to the physiology and morphogenesis of the organism. The Plant Anatomy seminar will constitute a portion of this course. Prerequisite: General Botany. 4 sem. hrs.

Bl. 422—General Virology

The virus as a biological entity; physical and chemical properties of virus particles; representative animal, plant and bacterial viruses are considered. The rickettsiae are briefly treated. Prerequisite: General Biology. 4 sem. hrs.

Bl. 423—Mycology

A survey of the fungi with emphasis on form and structure. Prerequisite: Bl. 301. 4 sem. hrs.

Bl. 424—Techniques in Bacteriology

Consideration and application of current techniques used in bacterial physiology. Qualitative and quantitative determination of metabolites are examined as are methods for studying mutants, respiration, and enzymes. Prerequisites: Bl. 301 and biochemistry. 4 sem. hrs.

Bl. 426—Comparative Physiology

A comparative study of the functioning of lower animals, covering such topics as water balance, sensory, and endocrine mechanisms. Prerequisites: General Biology, Organic Chemistry and permission of Professor. 4 sem. hrs.

Bl. 427—Physiology of the Fungi

A study of the chemical activities of fungi as related to their nutrition growth, reproduction and fermentative ability. Emphasis will be placed on fungi important in industry and agriculture. 4 sem. hrs.

Bl. 428—Plant Physiology.

Higher plants will be the principal object of study, with regard to their growth processes, water relations, and photosynthetic activities. The laboratory will illustrate modern techniques of investigation as well as the principles of the discipline involved. A weekly meeting devoted to a discussion of contemporary literature will be a part of the course. Prerequisite: General Biology and Organic Chemistry. 4 sem. hrs.

Bl. 430—Neurophysiology

Emphasis will be placed on Bio-electrical potentials and the physiology of sensory end-organs. Lab work will emphasize electrophysiological methods. Prerequisite: Permission of Professor. 4 sem. hrs.

Bl. 432—Botany for Teachers

A teacher training and review course for those engaged in, or preparing for, teaching high school biology. Emphasis is placed on the collection and preparation of local botanical materials for classroom use. Limited to graduate students in education. Prerequisite: General Botany. 4 sem. hrs.

Bl. 433—Zoology for Teachers

A teacher-training and review course for those engaged in, or preparing for, teaching high school biology. Emphasis is placed on the collection and preparation of local zoological materials for classroom use. Limited to graduate students in education. Prerequisite: General Zoology. 4 sem. hrs.

Bl. 444-445—Graduate Seminar

Prerequisite—advanced standing. 2 sem. hrs.

Bl. 453—Radiation Biology

A survey of the nature, measurement, and effect of ionizing radiations in biological systems. Designed to acquaint the beginner with theory and methods of use of radiation as a research tool. Geiger counter techniques will be used primarily; absorption and half-life experiments, tracer methods, biological uptake and distribution, isotope dilutions and similar topics will be covered in lectures and in laboratory. Prerequisite: Discretion of professor in charge of the course. 3 sem. hrs.

Bl. 501-502—Research in Bacteriology

4 sem. hrs.

Bl. 503-504—Research in Cytology

4 sem. hrs.

Bl. 505-506—Research in Plant Anatomy

4 sem. hrs.

Bl. 507-508—Research in Animal Ecology

4 sem. hrs.

Bl. 511-512—Research in Parasitology

4 sem. hrs.

Bl. 515-516—Research in Physiology

4 sem. hrs.

Education

Thomas J. Moran, Ph.D., *Chairman*

PURPOSE

The Graduate Division of the Department of Education is organized to offer advanced courses to members of the teaching profession for the purpose of understanding and analyzing the fundamental problems involved in the work of teaching, to acquire proficiency in the techniques of such understanding and analysis, and to become acquainted with the attempts of others toward the solution of these problems.

It is designed to offer preparation for the positions of elementary and secondary principals, supervisors and guidance counselors in public, parochial and private schools, for the position of teacher of exceptional children in these schools and advanced preparation for elementary and secondary teachers.

ADMISSION

The Graduate Division of the Department of Education offers courses of instruction leading to the degree of Master of Education for properly qualified students who have been admitted as classified graduate students. Applications for Admission must be filed with the Director of Admissions one month before the beginning of the session when the student plans to begin graduate work. The applicant for admission must write to the Registrar of each college previously attended and request an official transcript of all undergraduate and graduate work. This transcript must be sent by the college to the Director of Admissions, Loyola University, New Orleans 18, Louisiana. If the applicant for admission attended Loyola University as an undergraduate student, received his degree from Loyola University, and attended no other college or university after he received this degree no additional transcripts of work are required.

The Application for Admission and the transcripts of previous work are reviewed by the Executive Committee of the Department of Education. If these are approved by the Executive Committee, the applicant is then allowed to take the qualifying examination prescribed by the Department. The applicant is informed of this action and of the date and the

time of the qualifying examination. Final admission as a classified student is based on the record of all previous work and the results of the qualifying examination. Final admission as a classified graduate student must be obtained before admission to class.

A classified graduate student is one who has received the Bachelor's degree from a recognized college with a major in education, who has no prerequisite undergraduate work to make up, who has completed the upper division work satisfactorily (i.e. with a mark of "B" or better) in the undergraduate major in education, who is following a program of studies leading to an advanced degree, and who has been admitted by the Executive Committee of the Department of Education as a classified graduate student.

A number of properly qualified out-of-course students may be admitted to take specific courses for graduate credit provided that the applicant has filed application for admission and official transcripts of previous academic work with the Director of Admissions in ample time to receive notification of admission as an out-of-course student.

Upon the successful completion of all course work and with the approval of the Executive Committee of the Department of Education, a classified graduate student is permitted to make application for the comprehensive examination. This application must be filed not later than two weeks after the opening of the semester in which the degree is sought.

NOTE

An undergraduate student of Loyola University who lacks not more than six semester hours of credit for a Bachelor's degree and who has attained an average of "B" or better in the upper division work of his undergraduate major in education may, upon the recommendation of his Dean and with the approval of the Executive Committee of the Department of Education, register for a maximum of six semester hours of graduate work provided that he meets all other requirements for provisional registration and provided that the total program of courses for credit and non-credit in graduate and undergraduate work does not exceed twelve semester hours.

ADVANCED STANDING

Loyola University does not confer a degree upon anyone who has not completed an entire academic year of satisfactory

work under the guidance of the University. For the integration of the graduate program, the student must take all of his graduate courses for his Master's degree at Loyola University. A maximum of six semester hours, however, may be accepted in exceptional instances by the Executive Committee of the Department of Education.

LIMIT OF TIME

Work completed more than six years before the date on which the Master's degree is to be conferred will not be accepted in fulfillment of requirements for the degree.

RESIDENCE

For the degree of Master of Education, one academic year of residence is required in a program of at least 30 semester hours of graduate work. This work must include one semester, or its equivalent in summer terms, as a full-time student. Ordinarily two summer terms will be interpreted as meeting this minimum requirement. Not more than twelve semester hours may be scheduled by a full-time student in any one semester. A full time-teacher may schedule only 4 semester hours of graduate work during a semester. In the summer session 6 semester hours of graduate work may be scheduled for the six-week term.

COURSE REQUIREMENTS

The candidate must complete thirty semester hours of graduate work in course with a passing mark in each course. The mark, "A", indicates excellent or superior work. The mark, "B", indicates satisfactory work acceptable for graduate credit. The mark "C" indicates passing but unsatisfactory work at the graduate level. A point-hour ratio of 3.00 for graduate work is required for the Master's degree. This computation is based upon four quality points per semester hour for an "A", three quality points per semester hour for a "B", two quality points per semester hour for a "C", and no quality points for the mark of "F". The quality-point ratio is computed by dividing the total number of quality points earned by the total number of semester hours attempted.

COURSE PROGRAM

The student's program is planned with his adviser from the full curriculum of graduate courses. Approximately one-third of the courses should be in one specific area. The areas of

specialization include the following: elementary education, secondary education, elementary and secondary administration and supervision, guidance, education of the mentally retarded, education of the socially maladjusted and emotionally disturbed. This program is subject to the approval of the Executive Committee of the Department of Education. The program will include the following courses:

- Ed. 401 Philosophy of Education
- Ed. 410-411 History of the Theories of Education
- Ed. 490 Methodology of Educational Research
- Ed. 491-492 Statistics in Education

Ed. 401 and 410-411 Constitute the Common Core

COMPREHENSIVE EXAMINATION

A comprehensive written and oral examination covering the common core, the major field of work and chosen electives shall be passed by the candidate upon completion of his or her course work. When the degree is deferred pending another examination, the next examination must be postponed for a minimum of one semester, or for a longer period at the discretion of the Committee in Charge of the Candidacy. The second examination for the Master's degree is final. If unsuccessful, no further examination will be allowed.

FEES

Fees for the college of Arts and Sciences apply to the Graduate Division of the Department of Education.

COURSES

Course Offerings — 1963-1964

Fall: Ed. 411, 421, 423, 424, 426, 427, 429, 435, 437, 439, 441, 443, 449, 450, 451, 459, 471, 473, 475, 492, 499

Spring: Ed. 401, 410, 420, 422, 428, 436, 438, 440, 442, 446, 452, 463, 470, 472, 474, 476, 477, 479, 490, 491, 499

Summer: (1964) Same as for Fall plus Ed. 401, 410, 460, 461, 491

Ed. 401—Philosophy of Education

2 sem. hrs.

Ed. 410—Theories of Education I

2 sem. hrs.

Ed. 411—Theories of Education II

2 sem. hrs.

Ed. 420—School Administration: Elementary

2 sem. hrs.

Ed. 421—School Supervision: Elementary

2 sem. hrs.

<i>Ed. 422—School Administration: Secondary</i>	2 sem. hrs.
<i>Ed. 423—School Supervision: Secondary</i>	2 sem. hrs.
<i>Ed. 424—School Administration: Financing Public Education</i>	2 sem. hrs.
<i>Ed. 426—The Organization and Administration of Public Education in the United States</i>	2 sem. hrs.
<i>Ed. 427—School Supervision: Current Problems</i>	2 sem. hrs.
<i>Ed. 428—School Administration: Legal Foundations</i>	2 sem. hrs.
<i>Ed. 429—School Administration: Legal Problems</i>	2 sem. hrs.
<i>Ed. 435—Psychology of the Disturbed and the Maladjusted</i>	2 sem. hrs.
<i>Ed. 436—Education of the Maladjusted, Including Methods and Observation of Teaching of the Maladjusted</i>	2 sem. hrs.
<i>Ed. 437—Psychology of Exceptional Children</i>	2 sem. hrs.
<i>Ed. 438—Psychology of the Mentally Retarded</i>	2 sem. hrs.
<i>Ed. 439—Curriculum and Methods for the Mentally Retarded Including Observation of Teaching of Mentally Retarded</i>	2 sem. hrs.
<i>Ed. 440—Elementary School Curriculum</i>	2 sem. hrs.
<i>Ed. 441—Current Practices in Elementary School Subjects</i>	2 sem. hrs.
<i>Ed. 442—Problems in Elementary Education</i>	2 sem. hrs.
<i>Ed. 443—Diagnostic and Remedial Instruction in Elementary School Subjects</i>	2 sem. hrs.
<i>Ed. 446—Abnormal Psychology</i>	2 sem. hrs.
<i>Ed. 449—Seminar—Elementary Education</i>	2 sem. hrs.
<i>Ed. 450—The Secondary School Curriculum</i>	2 sem. hrs.
<i>Ed. 451—Problems in Secondary Education</i>	2 sem. hrs.

<i>Ed. 452—Extracurricular Activities in Secondary School</i>	2 sem. hrs.
<i>Ed. 459—Seminar in Secondary Education</i>	2 sem. hrs.
<i>Ed. 460—Developmental and Remedial Reading</i>	2 sem. hrs.
<i>Ed. 461—Clinic-Remedial and Developmental Reading</i>	2 sem. hrs.
<i>Ed. 463—Audio Visual Aids</i>	2 sem. hrs.
<i>Ed. 470—Principles of Guidance</i>	2 sem. hrs.
<i>Ed. 471—Analysis of the Individual I: Educational Tests and Measurements</i>	2 sem. hrs.
<i>Ed. 472—Analysis of the Individual II: Psychometrics</i>	2 sem. hrs.
<i>Ed. 473—Analysis of the Individual III: Practicum in Occupational Testing.</i>	2 sem. hrs.
<i>Ed. 474—Educational and Occupational Information</i>	2 sem. hrs.
<i>Ed. 475—Counseling</i>	2 sem. hrs.
<i>Ed. 476—Group Guidance</i>	2 sem. hrs.
<i>Ed. 477—Organization and Administration of Guidance</i>	2 sem. hrs.
<i>Ed. 479—Seminar in Guidance</i>	2 sem. hrs.
<i>Ed. 490—The Methodology of Educational Research</i>	2 sem. hrs.
<i>Ed. 491—Statistics I.</i>	2 sem. hrs.
<i>Ed. 492—Statistics II</i>	
Prerequisite: Ed. 491	2 sem. hrs
<i>Ed. 499—Research Problem in Education</i>	
Prerequisite: 490	2 sem. hrs.

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